A REGULAR MEETING OF THE BOARD OF DIRECTORS
OF THE TWENTYNINE PALMS WATER DISTRICT
72401 HATCH ROAD, TWENTYNINE PALMS, CA 92277

November 18, 2026 / 4:00 P.M.

AGENDA

This meeting may be viewed on the District's website at www.29palmswater.net
The Board reserves the right to discuss only or take action on any item on the agenda.

Next Resolution #26-16
Next Ordinance #106

Call to Order and Roll Call
Please make sure all cell phones are silenced.

Pledge of Allegiance

Additions/Deletions to the Agenda

Public Comments
Please complete a "Request to be Heard" form prior to the start of the meeting. The public may address the Board for 3 minutes on District-related matters. Government Code prohibits the Board from taking action on matters that are not on the agenda. However, the Board may refer matters for future consideration.

1. Consider Request for Annexation – APN #0609-271-02 and Approval of Indemnification Agreement

2. Consider Resolution 26-14 Approving and Adopting Standard Plans and Specifications for Construction of Water in TPWD and Repealing all Policies Inconsistent Herewith

3. Adopting Resolution 26-15 Recognizing Amy Woods for Public Service as a Director of the Twentynine Palms Water District

4. Consent Calendar
   Matters under the Consent Calendar are to be considered routine and will be enacted in a single motion. There will be no separate discussion of these items unless the Board, staff or the public requests specific items be removed for separate discussion and action before the Board votes on the motion to adopt.

   - Minutes of the Regular Meeting held on October 28, 2026
   - Audit List

5. Items Removed from the Consent Calendar for Discussion or Separate Action

6. Management Reports

6.1 Maintenance

6.2 Water Quality

6.3 Finance

6.4 General Manager

7. Closed Session: Conference with Legal Counsel – Existing Litigation Paragraph (1) of subdivision (d) of §54956.9

Name of Cases: In re: Aqueous Film-Forming Foams Product Liability Litigation, Master Docket MDL No. 2:18-mn-2873-RMG; City of Camden v. Carrier, No. 2:26-cv-02805-RMG; City of Camden v. Amerex Corporation, No. 2:26-cv-02798-RMG; City of Camden v. Archroma U.S. Inc., No. 2:26-cv-02802-RMG; City of Camden v. Nation Ford Chemical Company, No. 2:26-cv-02806-RMG; all pending in the United States District Court for the District of South Carolina; Proposed Settlement Agreements with Public Water Systems.

8. Future Agenda Items and Staff Tasks/Directors' Comments and Reports

9. Adjournment

Notice of agenda was posted on or before 4:00 p.m., November 13, 2026.

Matthew Shragge, General Manager

Upon request, this Agenda will be made available in appropriate alternative formats to persons with disabilities, as required by Section 202 of the Americans with Disabilities Act of 1990. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to Cindy Fowlkes at (760) 367-7546 at least 48 hours before the meeting, if possible.

Pursuant to Government Code Section 54957.5, any writing that: (1) is a public record; (2) relates to an agenda item for an open session of a regular meeting of the Board of Directors; and (3) is distributed less than 72 hours prior to that meeting, will be made available for public inspection at the time the writing is distributed to the Board of Directors. Any such writing will be available for public inspection at the District offices located at 72401 Hatch Road, Twentynine Palms, CA 92277. In addition, any such writing may also be posted on the District's website.

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TWENTYNINE PALMS WATER DISTRICT

72401 HATCH ROAD, TWENTYNINE PALMS, CA 92277-2935
760.367.7546 PHONE 760.367.6612 FAX

TO:	BOARD OF DIRECTORS
DATE:	NOVEMBER 6, 2026
FROM:	MATTHEW SHRAGGE, GENERAL MANAGER
SUBJECT:	APPROVAL OF INDEMNIFICATION AGREEMENT BETWEEN THE TWENTYNINE PALMS WATER DISTRICT AND PROPERTY OWNER OF APN #0609-271-02

BACKGROUND

Back in August of this year, the District was approached by Mr. Jeffrey Damien, the owner of APN #0609-271-02, to consider an annexation into the water district boundary. This parcel is a vacant 128 acre parcel that is currently located in the unincorporated San Bernardino area and not in the district's boundary. This parcel would require an annexation from the Local Agency Formation Commission (LAFCO) of San Bernardino County to allow the parcel in the District's service area.

The District does have the capacity to serve this parcel as a single family resident with the following conditions: completion of the LAFCO annexation process, compliance with Twentynine Palms Water District's codes, establishment of a reasonable time limit for the completion of annexation/project, and install water appurtenances.

In the September board meeting, the Board of Directors and District staff had a discussion on this annexation (Exhibit A), which at that time staff was given direction to pursue the annexation before us today.

Attached with this staff report is a copy of the Advance Deposit and Reimbursement Agreement between Jeffrey and Samantha Damien and the Twentynine Palms Water District (Exhibit B).

Before the Board today is the Indemnification Agreement (Exhibit C) between Jeffrey and Samantha Damien and the Twentynine Palms Water District. An indemnification agreement is a legal contract in which one party agrees to protect another party from

certain financial losses, damages, liabilities, or legal expenses that may arise from a specific situation.

FISCAL IMPACTS

There will be no fiscal impact to the District, as the property owner will be responsible for all fees, costs, and expenses incurred by the District in connection with the District's LAFCO application. Impact on the District would be staff time in preparing the LAFCO application and following the process through completion of the project.

RECOMMENDATION

Staff is making the recommendation to approve the Indemnification Agreement between Jeffrey and Samantha Damien and the Twentynine Palms Water District and have the General Manager execute the agreement.

Exhibit A

TWENTYNINE PALMS WATER DISTRICT

72401 HATCH ROAD, TWENTYNINE PALMS, CA 92277-2935
760.367.7546 PHONE 760.367.6612 FAX

TO:	BOARD OF DIRECTORS
DATE:	SEPTEMBER 11, 2026
FROM:	MATTHEW SHRAGGE, GENERAL MANAGER
SUBJECT:	DISCUSSION OF ANNEXATION- APN # 609-271-02

BACKGROUND

The definition of annex is to attach, append, or add, especially to something larger or more important. To incorporate (territory) into the domain of a special district, city, county, or state. An annexation project would be considered an APN (Assessor Parcel Number) located outside of the District boundary that would like to be included into the boundary for the service that could be provided. For our District, it would be to provide water service to a particular APN that currently does not have those rights.

The District has been approached by a private land owner of APN # 609-271-02, which is a property one parcel outside of the District boundary that consists of 128 acres. This property is currently in the unincorporated area of San Bernardino County and is not within the Joshua Basin Water District. There is no infrastructure need to complete this annexation except for the service to provide water.

An annexation of a new APN is done through LAFCO (Local Agency Formation Commission) of San Bernardino County and takes many steps to complete. The LAFCO annexation process starts with a resolution from our Board to LAFCO, with the understanding of adding an APN outside of the boundary. With an annexation project from a private land owner to the District, the owner will be liable for the cost of the annexation.

Attached to the staff report is mapping of APN # 609-271-02.

RECOMMENDATION

District staff would be looking to have an open discussion on annexation of APN #609-271-02 and direct staff to move forward with the next steps.

Exhibit B

TWENTYNINE PALMS WATER DISTRICT
ADVANCE DEPOSIT AND REIMBURSEMENT AGREEMENT
(Jeffrey and Samantha Demian)

THIS ADVANCE DEPOSIT AND REIMBURSEMENT AGREEMENT ("Agreement") is made and entered into this 30 day of September, 2026, by and between the Twentynine Palms Water District, a public agency ("TPWD"), and Jeffrey and Samantha Demian ("Applicant").

RECITALS

A. TPWD is a County Water District duly formed and operating under the County Water District Law ("Law") set forth in Water Code Section 30000 *et seq.* The Law provides, among other things, for TPWD's authority to: provide water and fix rates and charges to be collected by TPWD so as to yield an amount sufficient to pay the operating expenses of TPWD; and

B. Applicant is considering constructing improvements as part of a development project ("Project") on property currently located outside of TPWD's service area and sphere of influence. Applicant desires to have the Project receive water service from TPWD, and TPWD is willing to provide such service, contingent upon Applicant satisfying all terms and conditions for service as set forth in the Twentynine Palms Water District Code ("Code"), as the same may be revised from time to time. Said Code provides, among other things, that Applicant shall submit an application for service, pay associated fees and charges, and construct applicable facilities without cost to TPWD; and

C. Annexation of the Project into TPWD's service area for water service requires approval through the San Bernardino County Local Agency Formation Commission ("LAFCO") process including, but not limited to, the submittal of an application and Plan of Service to LAFCO. TPWD is willing to take the lead in implementing the LAFCO process subject to the terms and conditions of this Agreement; and

D. The parties hereto wish to enter into this Agreement in order to set forth the terms and conditions upon which Applicant will advance funds as needed, from time to time, for the costs and expenses related to the initiation and completion of the applicable LAFCO process by TPWD for annexation of the Project into TPWD's service area ("LAFCO Work"). The Project, property, and LAFCO Work are more particularly described in Exhibit "A" attached hereto and incorporated herein by reference.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual agreements and other covenants and conditions contained herein, the parties hereby agree as follows:

1. Advances Applicant shall advance funds to TPWD in such amounts and at such times as specified below to pay all costs and expenses incurred by TPWD in undertaking the LAFCO Work,

including without limitation, the activities and costs set forth below. All such costs and expenses are collectively referred to as the "TPWD Costs."

(a) Third party consulting services, estimated as $10,000;

(b) LAFCO annexation fees and costs, estimated as $10,000 to be reconciled after the annexation process is complete, and which may include costs related to environmental review necessary for LAFCO approval;

(c) Legal services incurred by TPWD in connection with the preparation of this Agreement and in connection with the LAFCO Work.

2. Payment Schedule Advance Deposits shall be made to TPWD for the TPWD Costs pursuant to the following schedule:

(a) Initial Advance Deposit On or before the date of full execution of this Agreement, Applicant shall advance such amount as shall be reasonably established by TPWD. Information concerning the amount of said Initial Advance Deposit shall be provided by TPWD to Applicant prior to the date of full execution of this Agreement. **Initial Advance Deposit will be $5,000.**

(b) Additional Advance Deposits The TPWD Costs may exceed the amount of the Initial Advance Deposit. In that event, Applicant shall deposit additional amounts with TPWD in order to pay the full amount of the TPWD Costs. At any time when TPWD reasonably determines that the amount of the Initial Advance Deposit, or any Additional Advance Deposit, will be exceeded, TPWD shall notify Applicant in writing of that determination and of the estimated additional amount which Applicant must deposit with TPWD. Upon receipt of such notification, Applicant shall deposit the additional amount specified therein with TPWD within five (5) business days of the date of the notification. If Applicant fails to deposit any such additional amount with TPWD, TPWD may suspend or terminate the LAFCO Work.

(c) Return Of Funds In the event funds from any advances remain on deposit with TPWD following completion of the LAFCO Work and the final application of said funds to the TPWD Costs, any amounts which remain on deposit shall be returned to Applicant within thirty (30) days from the date of completion of the LAFCO Work.

3. Records. TPWD agrees to keep records consistent with its regular accounting practices of the amount of funds advanced and the expenditure of such funds. Additionally, TPWD shall enter into and maintain contracts with any third party consultants which TPWD may retain for performance of the LAFCO Work. Said contracts shall specify the scope of services and compensation to be paid to all such consultants. Such records and contracts shall be available for review by APPLICANT during normal business hours upon reasonable notice to TPWD.

4. Limited Scope Of This Agreement

(a) No Guarantee Nothing in this Agreement shall be deemed to be a representation, warranty or guarantee that there will be a successful outcome or approval of the LAFCO process. In addition, there is no representation, warranty or guarantee as to the nature of the terms and conditions which may be imposed as part of any such approval.

(b) No Approval or Right To Services Nothing in this Agreement shall be deemed to be an approval, commitment or any other binding obligation on TPWD to approve or initiate water service to Applicant and/or the Project. It is hereby acknowledged and agreed that Applicant shall be solely responsible, at its sole cost and expense, for all applications, fees and facilities which may be required for the initiation of services by TPWD. Nothing in this Agreement shall be deemed to be an application for service from Applicant or an approval of service from TPWD.

(c) Limited To The Project This Agreement shall be deemed to apply solely to the LAFCO Work for the Project and property as set forth in Exhibit "A" and for no other project or property.

5. General Provisions.

(a) Counterparts This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

(b) Authority to Execute Agreement The parties represent that the individuals signing this Agreement have full right and authority to bind their respective parties to this Agreement.

(c) Successor and Assigns This Agreement shall be binding on and inure to the benefit of the respective parties and their respective heirs, legal representatives, successors and assigns. Applicant may not assign its rights or obligations hereunder except upon written notice to TPWD within ten (10) days of the date of such assignment indicating the name and address of the assignee. Upon such notice and assumption by the assignee, in writing delivered to TPWD, of the rights, duties and obligations of Applicant arising under or from this Agreement, Applicant shall be released of all future duties or obligations arising under this Agreement.

(d) Governing Law This Agreement has been executed in and shall be governed by the laws of the State of California. Venue shall be in San Bernardino County.

(e) Severability In the event any provision of this Agreement is for any reason held to be unenforceable by a court of competent jurisdiction, such unenforceability shall not affect any other provision of this Agreement, and this Agreement shall be construed as if such unenforceable provision or provisions had never been contained herein.

(f) Notices All notices and demands shall be given in writing by personal delivery or first-

class mail, postage prepaid. Notices shall be addressed as appears below for the respective party; provided that, if any party gives notice of a change of name of address, notices to the giver of that notice shall thereafter be given as demanded in that notice. Notices shall be deemed received seventy-two (72) hours after deposit in the United States mail.

TPWD
General Manager
Matthew Shragge

APPLICANT
Jeffrey Demian
Samantha Demian

(g) Waiver The waiver by one party of the performance of any covenant, condition or promise shall not invalidate this Agreement, nor shall it be considered a waiver by such party of any other covenant, condition or promise.

(h) Amendment No provision of this Agreement may be modified, waived, amended or added except by a writing signed by the party against which the enforcement of such modification, waiver, amendment or addition is or may be sought.

(i) Termination Either party may terminate this Agreement by giving the other party ten (10) business days prior written notice, and in the case of Applicant, by also paying to TPWD an amount of money which, together with the remaining balance of the amounts deposited by Applicant, will be sufficient to pay all costs incurred to the date of termination pursuant to the terms of this Agreement, and in the case of TPWD, by also refunding to Applicant any remaining balance of the amounts deposited by Applicant after payment of all costs incurred to the date of termination.

(j) Hold Harmless Applicant hereby agrees to indemnify and hold free and harmless TPWD from and against any and all liability, expense, including defense costs and legal fees, and claims for damages of any nature whatsoever arising from or connected with TPWD's activities under this Agreement. Said obligation to hold TPWD harmless shall not apply to any liability resulting from the gross negligence or willful misconduct of TPWD.

(k) Incorporation Of Recitals The recitals set forth above are incorporated herein and made an operative part of this Agreement.

SIGNATURES ON FOLLOWING PAGE(S)

IN WITNESS WHEREOF, the parties have executed this Advance Deposit and Reimbursement Agreement thereby indicating that they have read and understood same, and indicate their full and complete consent to its terms.

TWENTYNINE PALMS WATER DISTRICT

By: _____

Title: _____

APPLICANT

By: _____

Title: _____

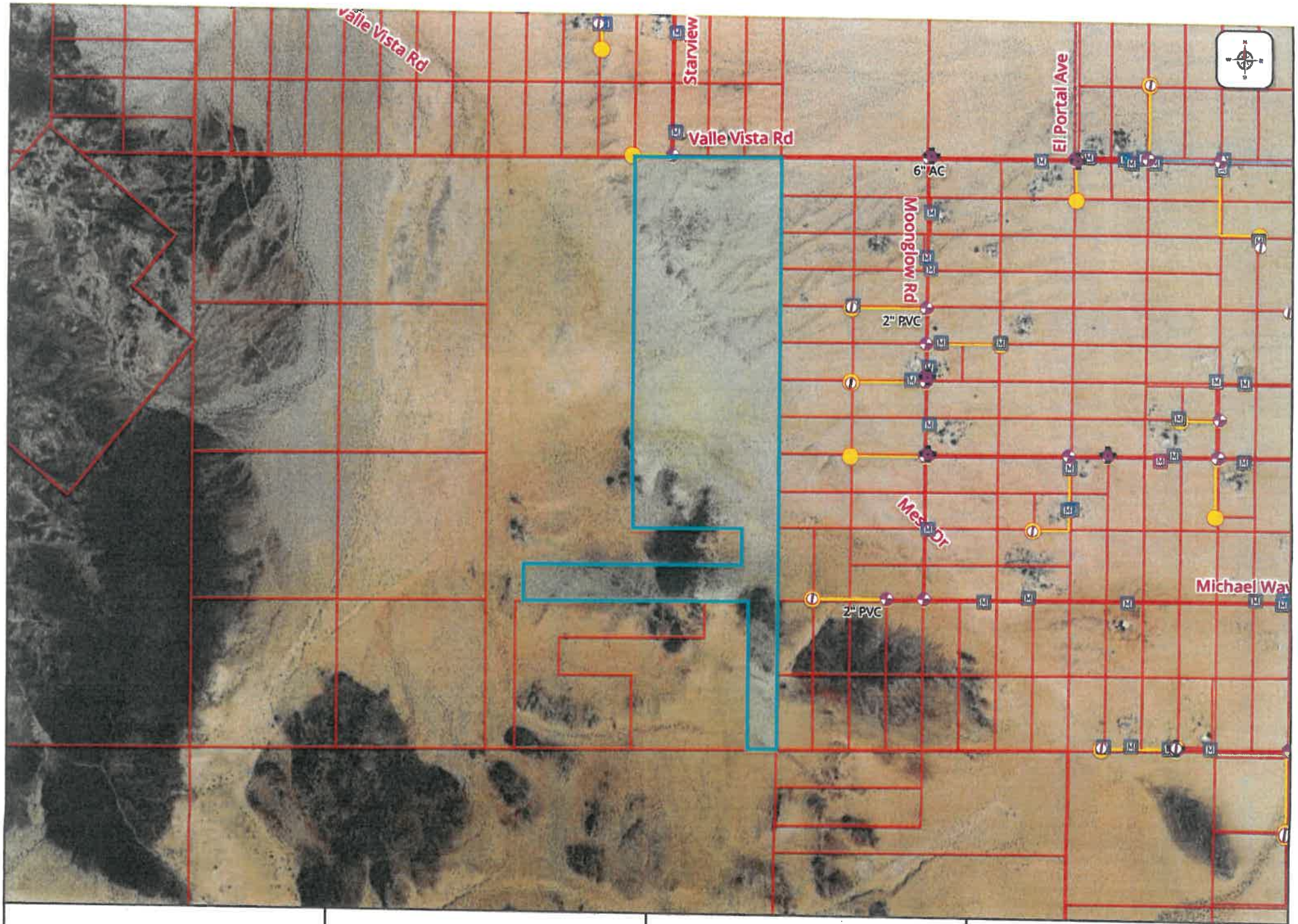
By: _____

Title: _____

EXHIBIT A

Project, Property and LAFCO Work

GIS Map of APN #609-271-02



1" = 1,110 ft	**609-271-02**	08/20/2026	TPWD

Exhibit C

INDEMNIFICATION AGREEMENT BY PROPERTY OWNER IN FAVOR OF TWENTYNINE PALMS WATER DISTRICT (DISTRICT) IN CONNECTION WITH THE DISTRICT'S SAN BERNARDINO LAFCO APPLICATION FOR ANNEXATION OF THE PROPERTY OWNER'S PROPERTY TO THE DISTRICT'S SERVICE TERRITORY FOR WATER SERVICE

In consideration for the LAFCO application filed by Twentynine Palms Water District (District) for the benefit of the undersigned Property Owner in order for the Property Owner to connect to the District's water system for water service located at:

APN: 0609-271-02

A 128 acre parcel south of Valle Vista Rd. and East of Moonglow Rd. This parcel is located on the western District boundary line in the unincorporated San Bernardino County area.

The Property Owner agrees as follows:

The Property Owner shall be responsible for all fees, costs and expenses (LAFCO Costs) incurred by the District in connection with the District's LAFCO application mentioned above which, if successful, should enable the Property Owner to apply for a water connection to and water service from the District. Such LAFCO Costs include any fees, costs, and expenses charged by LAFCO and any attorneys' fees charged by LAFCO or incurred by the District in connection with the District's LAFCO application. Such costs and expenses are in addition to the regular payment by the Property Owner of the District's water rates, fees, and charges for such water connection and water service.

In addition, the Property Owner and the District agree that the District shall, 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 District's LAFCO application or any third party legal challenge to the Agency's LAFCO application. Accordingly, the provisions of this indemnity provision are intended by the parties to be interpreted and construed to provide the fullest protection possible to the District.

Therefore, the Property Owner shall defend, indemnify, and hold harmless the District (with legal counsel chosen by 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, including actual attorney's fees incurred by the District, courts 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 connection with the District's LAFCO application. All obligations under this provision are to be paid by Property Owner as they are incurred by the District.

Each of the persons signing below represent that they have the authority to act on behalf of the respective parties to this indemnification agreement and to bind those parties to the obligations of this agreement.

Executed in Twentynine Palms, California on the date indicated by each signature below.

Property Owner	Twentynine Palms Water District
_____	_____
By: _____	**By:** _____
Date: _____	**Date:** _____

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TWENTYNINE PALMS WATER DISTRICT

72401 HATCH ROAD, TWENTYNINE PALMS, CA 92277-2935
760.367.7546 PHONE 760.367.6612 FAX

TO:	BOARD OF DIRECTORS
DATE:	NOVEMBER 9, 2026
FROM:	MATTHEW SHRAGGE, GENERAL MANAGER
SUBJECT:	RESOLUTION 26-14 ADOPTING UPDATED STANDARD DRAWING FOR WATER SYSTEM IMPROVEMENTS AND SUPERSEDING PRIOR STANDARD DRAWINGS

DISCUSSION

With the help from District engineers and staff the updated Standard Drawing are here before the Board of Directors. The Standard Drawings are a collection of approved engineered drawings that establish uniform design, construction, installation, and material requirements for the infrastructure within the water district's service area. These drawings provide contractors, engineers, developers, construction personnel, and District staff with the guidelines for building, modifying, and maintaining the water distribution system. The Standard Drawings help ensure that all water system improvements meet the District's engineering standards, safety requirements, and certain regulations.

The importance of Standard Drawings help create a tool to establish consistency, improve construction quality, reduce costs, and support efficient operation and maintenance. Standard drawings ensure that water system improvements meet the District's long-term operation needs, along with meeting engineering requirements.

RECOMMENDATION

District staff is making the recommendation to approve Resolution 26-14 Updating the District's Standard Drawings for Water System Improvement.

RESOLUTION NO. 26-14

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TWENTYNINE PALMS WATER DISTRICT ADOPTING UPDATED STANDARD DRAWINGS FOR WATER SYSTEM IMPROVEMENTS AND SUPERSEDING PRIOR STANDARD DRAWINGS

WHEREAS, the Twentynine Palms Water District ("District") is a County Water District duly formed and operating pursuant to Section 31000 et seq. of the California Water Code and has the authority to and does provide water service to customers within its service area; and

WHEREAS, groundwater is a valuable resource within the State of California and particularly within the boundaries of the District, and such groundwater must be monitored and evaluated; and

WHEREAS, California Water Code sections 31001 and 31024 authorize the District to perform acts necessary to carry out the County Water District Law and to establish rules and regulations governing the sale, distribution, and use of water; and

WHEREAS, the District maintains standards for improvements to the District's water distribution system; and

WHEREAS, on November 21, 1984, the Board of Directors adopted Resolution No. 379, approving and adopting the document entitled "Standard Plans and Specifications for Construction of Water," including standard drawings applicable to improvements to the District's water distribution system; and

WHEREAS, the District has prepared updated standard drawings entitled "Twentynine Palms Water District Standard Drawings," attached hereto as Exhibit "A" and incorporated herein by reference (the "Standard Drawings"); and

WHEREAS, the District has updated its Standard Drawings to provide uniform requirements for the construction and installation of water system improvements and to promote the safe, reliable, and efficient operation and maintenance of the District's water distribution system; and

WHEREAS, the Board of Directors desires to adopt the revised Standard Drawings to replace the standard drawings previously adopted under Resolution No. 379 in their entirety.

NOW, THEREFORE, the Board of Directors does hereby RESOLVE and ORDER as follows:

Section 1. Incorporation of Recitals. The above Recitals are true and correct and incorporated herein by this reference.

Section 2. Adoption of Standard Drawing. The Standard Drawings set forth in Exhibit "A" hereto are hereby approved and adopted as the standard drawings of the District.

Section 3. Applicability. The Standard Drawings shall apply to all improvements to the District's water distribution system, including the construction, installation, replacement, and modification of water facilities, subject to applicable District requirements.

Section 4. Maintenance and Availability. The Board Secretary shall maintain a copy of the Standard Drawings on file at the District's office and make them available to interested persons.

Section 5. CEQA Exemption. The District's adoption of the Standard Drawings does not constitute a "project" for purposes of the California Environmental Quality Act ("CEQA") because it does not have a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, and also constitutes continuing administrative activities relating to water service. (State CEQA Guidelines, § 15378(a), (b)(2).) Further, even if the adoption of the regulations were to constitute a project for purposes of CEQA, it is exempt pursuant to State CEQA Guidelines section 15061(b)(3), on grounds it can be seen with certainty that the adoption of the regulations will not result in causing a significant effect on the environment.

Section 6. Replacement of Prior Standard Drawings. The Standard Drawings adopted by this Resolution replace in their entirety the standard drawings adopted under Resolution No. 379.

Section 7. Severability. If any section, subsection, clause, or phrase in this Resolution is for any reason held invalid, the validity of the remainder of this Resolution shall not be affected thereby. The Board hereby declares that it would have passed this Resolution and each section, subsection, sentence, clause, or phrase thereof, irrespective of the fact that one or more sections, subsections, sentences, clauses, or phrases or the application thereof be held invalid.

PASSED, APPROVED AND ADOPTED on this 18th day of November, 2026, by the following vote:

Ayes:
Noes:
Abstain:
Absent:

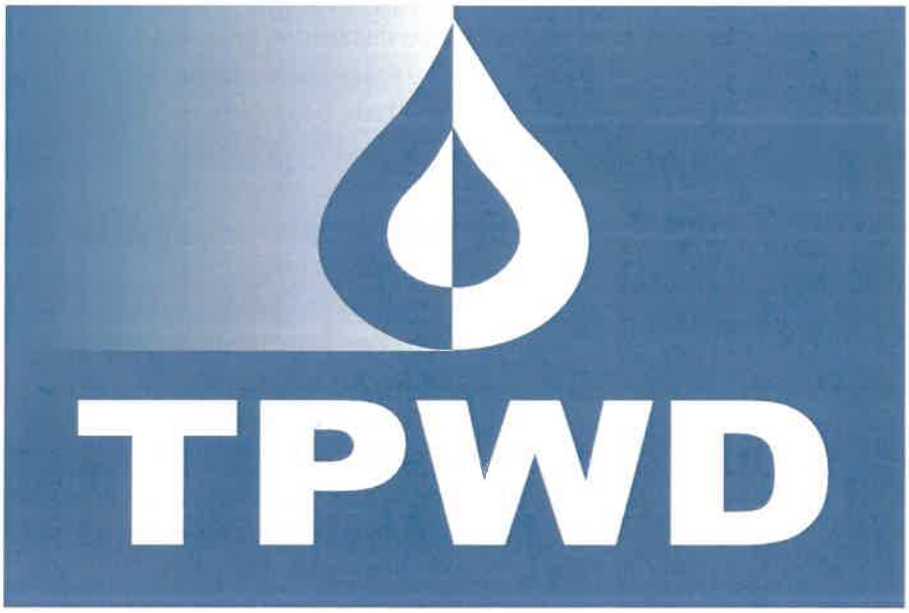
_____
Bob Coghill, President
Board of Directors

Attest:

_____
Matthew Shragge, Board Secretary
Twentynine Palms Water District

EXHIBIT "A"

STANDARD DRAWINGS



Twentynine Palms Water District

Standard Drawings

SD-DC to SD-36

Table of Contents

Standard Drawing No.	Standard Drawing Title
SD-DC	Drawings Certification
SD-GN	General Notes
SD-1	Parallel and Perpendicular Pipeline Separation Requirements
SD-2	PVC and Ductile Iron Pipe Installation (Including Locator Wire Details)
SD-3	Trench Backfill Detail
SD-4	Standard Restraint for Tees, Dead Ends, and Bends for PVC Pipe
SD-5	Thrust Block Details
SD-6	Anchor Block (Vertical Bend)
SD-7	Concrete Encasement and Concrete Cap
SD-8	End Cap Installation
SD-9	Steel Casing
SD-10	Cathodic Protection Test Station for Steel Casing
SD-11	Valve Cap and Riser Detail
SD-12	Gate Valve Installation
SD-13	Fire Hydrant & Appurtenance Locations (Improved Streets)
SD-14	Fire Hydrant & Appurtenance Locations (Unimproved Streets)
SD-15	Water Pipeline Dead-End Fire Hydrant
SD-16	6" Fire Hydrant Assembly
SD-17	Super Fire Hydrant Assembly
SD-18	6" Blow-Off Assembly
SD-19	1" Air Vacuum and Air Release Assembly
SD-20	2" Air Vacuum and Air Release Assembly
SD-21	Water Meter Box Locations
SD-22	Existing Water Service Abandonment
SD-23	Typical Drop-In Meter Installation (5/8", 3/4", 1", 1-1/2" Or 2")
SD-24	3/4" and 1" Water Service Lateral (Copper)
SD-25	1-1/2" and 2" Water Service Lateral (Copper)
SD-26	PVC Service Lateral (4", 6", 8", and 12")
SD-27	Fire Service & Backflow Prevention Assembly (DCDA Or RPDA)
SD-28	Reduced Pressure Principle Backflow Prevention Assembly (2" & Smaller)
SD-29	Reduced Pressure Principle Backflow Prevention Assembly (3" & Larger)
SD-30	Double Check Backflow Prevention Device (3" & Larger)
SD-31	Water Quality Sample Station
SD-32	Ductile Iron Pipeline Details
SD-33A	Butterfly Valves Installation, C.I. and D.I. Fitting and Steel Pipe Saddle Outlet
SD-33B	Butterfly Valves Installation, Steel Pipe In Line Valve and MJ Connections
SD-33C	Butterfly Valves Installation, General
SD-34A	Meter Installation, 3"
SD-34B	Meter Installation, 4"

SD-34C	Meter Installation, 6"
SD-34D	Meter Installation, 8"
SD-34E	Meter Installation, General
SD-35A	Double Check Detector Assembly Reduced Pressure Detector Assembly
SD-35B	Double Check Detector Assembly Reduced Pressure Detector Assembly
SD-36	Pipe Penetration

THE FOLLOWING CERTIFICATION SHALL
APPEAR ON THE FIRST SHEET OF PLANS:

DRAWINGS CERTIFICATION

THE NOTES AND DRAWINGS CONTAINED HEREIN WERE PREPARED UNDER THE RESPONSIBLE CHARGE OF THE UNDERSIGNED PROFESSIONAL ENGINEER AND SET THE MINIMUM CONSTRUCTION STANDARDS FOR THIS TWENTYNINE PALMS WATER DISTRICT PROJECT. THE USE OF THIS DOCUMENT SHALL NOT BE CONSTRUED AS A SUBSTITUTE FOR ENGINEERING OF OTHER PROJECTS. EACH PROJECT SHALL HAVE CALCULATIONS, SPECIFICATIONS, AND DRAWINGS PREPARED BY AN APPROPRIATE STATE OF CALIFORNIA LICENSED ENGINEER.

NAME _____ TITLE _____ DATE _____

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Twentynine Palms Water District 760.367.7546

STANDARD DRAWING
DRAWINGS CERTIFICATION

SCALE: NTS
DWG. NO.
SD-DC

GENERAL NOTES

1. ALL WORK SHALL BE DONE BY AN APPROVED CONTRACTOR, IN CONFORMANCE WITH THE CONTRACT DRAWINGS, SPECIFICATIONS, AND TWENTYNINE PALMS WATER DISTRICT "STANDARDS FOR DOMESTIC WATER SYSTEMS," NOVEMBER 1997.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING A PRE-CONSTRUCTION MEETING WITH TWENTYNINE PALMS WATER DISTRICT A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE JOB SITE AND THE LOCATION OF ALL UNDERGROUND FACILITIES SHOWN OR NOT SHOWN ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL BE UNILATERALLY RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT SHOWN ON THE CONTRACT DRAWINGS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO PIPE AND APPURTENANCES INCURRED WHILE BACK FILLING AND COMPACTING.

6. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND DELIVER ONE COPY TO TWENTYNINE PALMS WATER DISTRICT.

7. THE CONTRACTOR SHALL NOTIFY ALL SERVING UTILITIES 48 HOURS PRIOR TO BEGINNING ANY DITCH EXCAVATION NEAR THEIR FACILITIES. CALL UNDERGROUND SERVICE ALERT TOLL FREE (1-800-422-4133).

8. THE CONTRACTOR SHALL CONFIRM ALL DRIVEWAY LOCATIONS PRIOR TO THE INSTALLATION OF SERVICES, FLUSHOUTS, BLOWOFFS, FIRE HYDRANTS, AND OTHER APPURTENANCES. NO FACILITIES WILL BE ALLOWED IN DRIVEWAYS OR CONCRETE STREET IMPROVEMENTS.

9. ALL PIPE SHALL BE CLASS 150, UNLESS OTHERWISE NOTED, AND INSTALLED WITH COPPER TRACING WIRE PER SD-2.

10. MAIN LINE PRESSURE TESTING SHALL BE PASSED PRIOR TO CONNECTION TO ANY TWENTYNINE PALMS WATER DISTRICT MAIN. NO WATER USE OF ANY KIND WILL BE PERMITTED UNTIL ALL MAINS, SERVICES, AND FIRE HYDRANTS HAVE BEEN PRESSURE TESTED, CHLORINATED, AND FLUSHED, AND A FAVORABLE BACTERIOLOGICAL REPORT HAS BEEN RECEIVED BY TWENTYNINE PALMS WATER DISTRICT.

11. CONNECTIONS OF NEW MAINS TO EXISTING MAINS SHALL BE MADE BY TWENTYNINE PALMS WATER DISTRICT AT THE OWNER'S EXPENSE. CONTRACTOR SHALL COORDINATE THIS WORK WITH TWENTYNINE PALMS WATER DISTRICT 48 HOURS PRIOR TO PREPARATION FOR THIS CONNECTION (760-367-7546). ALL OTHER WORK INCLUDING, BUT NOT LIMITED TO, EXCAVATION, BACKFILL, VALVE COVERS, AND PAVING FOR THIS CONNECTION SHALL BE BY THE CONTRACTOR.

REVISION NO.	REVISION DATE

APPROVED: _____ (DATE)

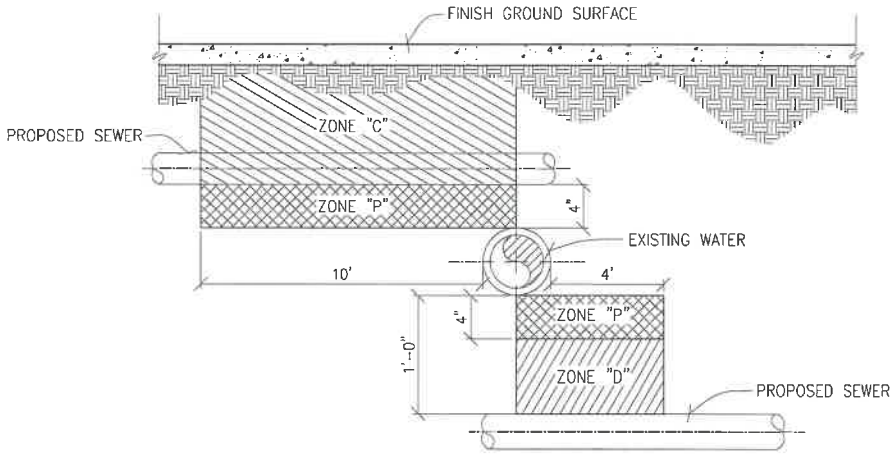
MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Twentynine Palms Water District 760.367.7546

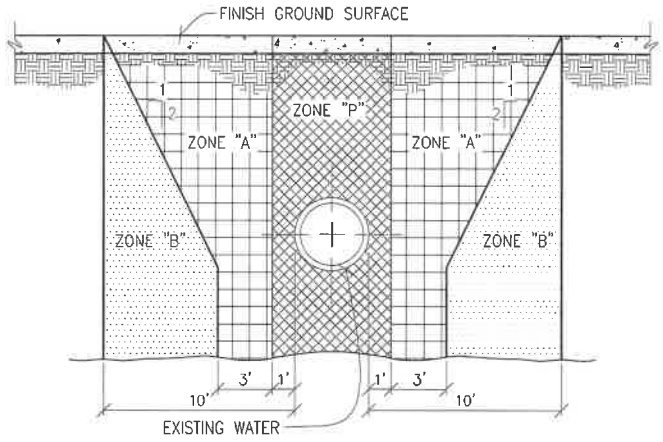
STANDARD DRAWING
GENERAL NOTES

SCALE: NTS

DWG. NO.
SD-GN



CROSSING (PERPENDICULAR) CONDITION



PARALLEL CONDITION

ZONE "A" NO SEWERS SHALL BE CONSTRUCTED WITHOUT SPECIAL APPROVAL FROM STATE WATER RESOURCES CONTROL BOARD DIVISION OF DRINKING WATER AND THE TWENTYNINE PALMS WATER DISTRICT.

ZONE "B" SEWER SHALL BE CONSTRUCTED OF EXTRA STRENGTH VITRIFIED CLAY PIPE WITH COMPRESSION JOINTS, POLYVINYL CHLORIDE PLASTIC PIPE WITH RUBBER RING JOINTS (PER ASTM D 3034), OR DUCTILE IRON PIPE WITH COMPRESSION JOINTS.

ZONE "C" & ZONE "D" SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING AND MECHANICAL JOINTS, CONTINUOUS SECTION OF CLASS 305 (DR14 PER AWWA C-900) POLYVINYL CHLORIDE PLASTIC PIPE, CENTERED OVER PIPE BEING CROSSED OR VITRIFIED CLAY PIPE WITHIN A CONTINUOUS STEEL SLEEVE (1/4" MINIMUM WALL THICKNESS).

ZONE "P" NO SEWER LINE CONSTRUCTION ALLOWED.

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

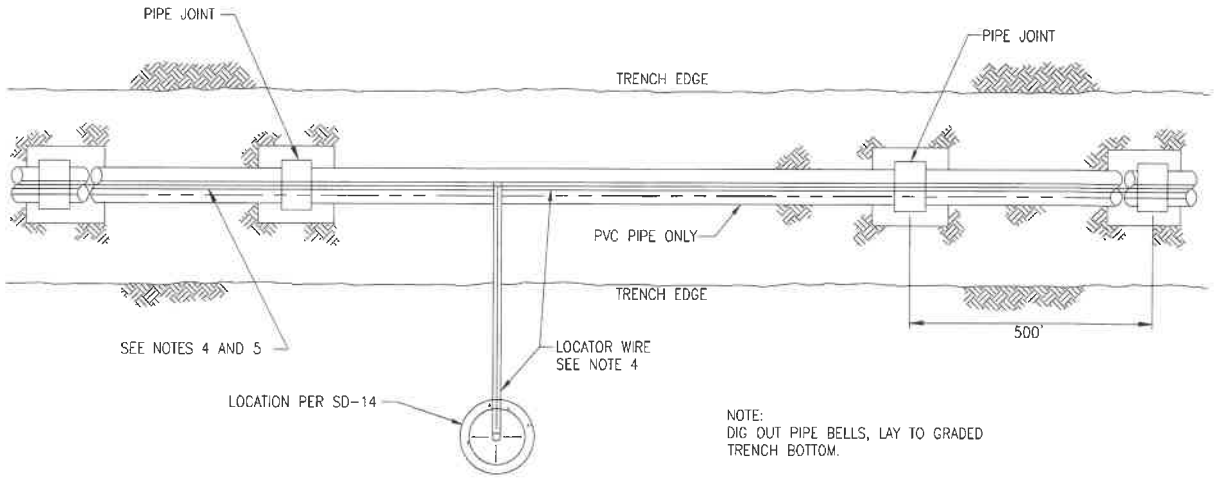
TPWD Twentynine Palms Water District 760.367.7546

STANDARD DRAWING
PARALLEL AND PERPENDICULAR PIPELINE SEPARATION REQUIREMENTS

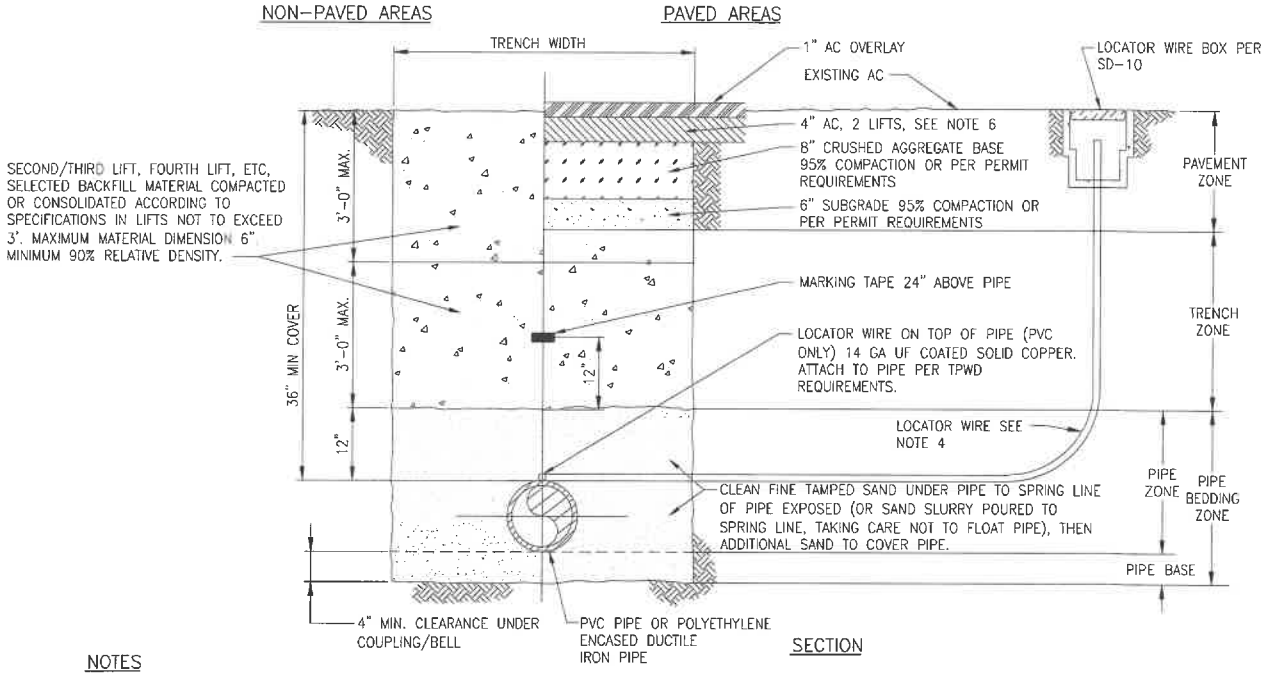
SCALE: NTS

DWG. NO.

SD-1



PLAN



SECTION

NOTES

1. THE BACKFILL MATERIAL IN THE PIPE ZONE MAY CONSIST OF MATERIAL FROM THE EXCAVATION WHERE THAT MATERIAL IS A UNIFORMLY GRADED GRANULAR SOIL FREE FROM STONES OR LUMPS EXCEEDING 3/4" IN MAX. DIM., VEGETABLE MATTER, OR OTHER UNSATISFACTORY MATERIAL; HAVING NOT LESS THAN 90% RELATIVE DENSITY AND SAND EQUIVALENT (SE) VALUE OF 30 (MIN).
2. WHERE CONTRACTOR DESIRES TO UTILIZE NATIVE MATERIAL IN PLACE OF SAND IN THE PIPE ZONE, THE SAND EQUIVALENT VALUE OF THE NATIVE MATERIAL SHALL BE DETERMINED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH A.S.T.M. SPEC. D-2419. (MIN. S.E. 30)
3. WHEN INSTALLING PIPE, CONTRACTOR TO EXCAVATE BELOW ALL BELLS/JOINTS TO A DEPTH WHICH ALLOWS THE PIPE TO REST IN A UNIFORM MANNER.
4. INSTALL #14 AWG. LOCATOR WIRE WITH APPURTENANCE LATERAL TO GROUND SURFACE. TERMINATE LOCATOR WIRE IN LOCATOR WIRE BOX PER SD-10. LOCATOR WIRE SHALL BE INSTALLED AT A MAXIMUM OF EVERY 500' INTERVAL ALONG THE PVC MAIN. SPLICE AT MAIN WITH WATER TIGHT CONNECTOR.
5. INSTALL 6" WIDE MARKING TAPE LABELED WITH COLOR AS FOLLOWS:
   POTABLE WATER – BLUE
   SEWER – GREEN
   RECYCLED WATER – MAGENTA (PURPLE)
6. PAVEMENT REPLACEMENT SECTION SHOWN IS MINIMUM REQ'D, AND SHALL MEET STRICTER REQUIREMENTS OF LOCAL JURISDICTION, IF APPLICABLE

TRENCH WIDTH TABLE

PIPE SIZE	TOTAL TRENCH WIDTH	
	MIN.	MAX.
6"	18"	24"
8"	20"	26"
12"	24"	30"
16"	40"	52"
20"	44"	56"
24"	48"	60"

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

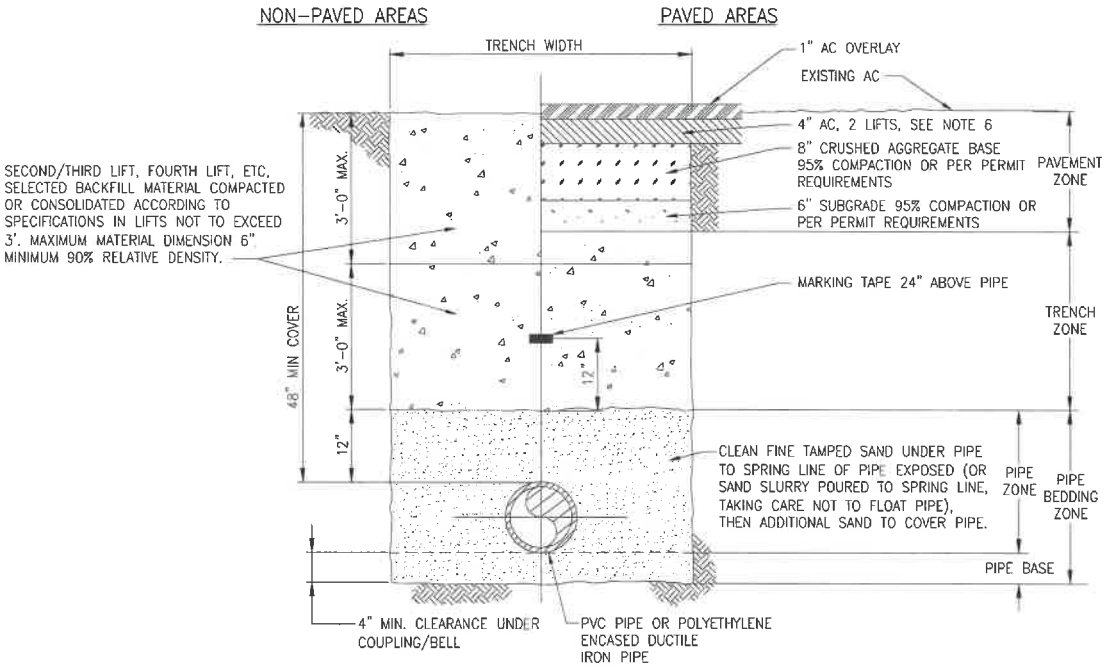
TPWD Terrebonne Parish Water District 780.367.7546

STANDARD DRAWING

PVC AND DUCTILE IRON PIPE INSTALLATION (INCLUDING LOCATOR WIRE DETAILS)

SCALE: NTS

DWG. NO. SD-2



SECTION

NOTES

1. THE BACKFILL MATERIAL IN THE PIPE ZONE MAY CONSIST OF MATERIAL FROM THE EXCAVATION WHERE THAT MATERIAL IS A UNIFORMLY GRADED GRANULAR SOIL FREE FROM STONES OR LUMPS EXCEEDING 3/4" IN MAX. DIM., VEGETABLE MATTER, OR OTHER UNSATISFACTORY MATERIAL; HAVING NOT LESS THAN 90% RELATIVE DENSITY AND SAND EQUIVALENT (SE) VALUE OF 30 (MIN).
2. WHERE CONTRACTOR DESIRES TO UTILIZE NATIVE MATERIAL IN PLACE OF SAND IN THE PIPE ZONE, THE SAND EQUIVALENT VALUE OF THE NATIVE MATERIAL SHALL BE DETERMINED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH A.S.T.M. SPEC. D-2419. (MIN. S.E. 30)
3. WHEN INSTALLING PIPE, CONTRACTOR TO EXCAVATE BELOW ALL BELLS/JOINTS TO A DEPTH WHICH ALLOWS THE PIPE TO REST IN A UNIFORM MANNER.
4. INSTALL #14 AWG. LOCATOR WIRE WITH APPURTENANCE LATERAL TO GROUND SURFACE. TERMINATE LOCATOR WIRE IN LOCATOR WIRE BOX PER SD-10. LOCATOR WIRE SHALL BE INSTALLED AT A MAXIMUM OF EVERY 500' INTERVAL ALONG THE PVC MAIN. SPLICE AT MAIN WITH WATER TIGHT CONNECTOR.
5. INSTALL 6" WIDE MARKING TAPE LABELED WITH COLOR AS FOLLOWS:
   POTABLE WATER – BLUE
   SEWER – GREEN
   RECYCLED WATER – MAGENTA (PURPLE)
6. PAVEMENT REPLACEMENT SECTION SHOWN IS MINIMUM REQ'D, AND SHALL MEET STRICTER REQUIREMENTS OF LOCAL JURISDICTION, IF APPLICABLE

TRENCH WIDTH TABLE

PIPE SIZE	TOTAL TRENCH WIDTH	
	MIN.	MAX.
6"	18"	24"
8"	20"	26"
12"	24"	30"
16"	40"	52"
20"	44"	56"
24"	48"	60"

REVISION NO.	DATE

APPROVED: _____ (DATE)

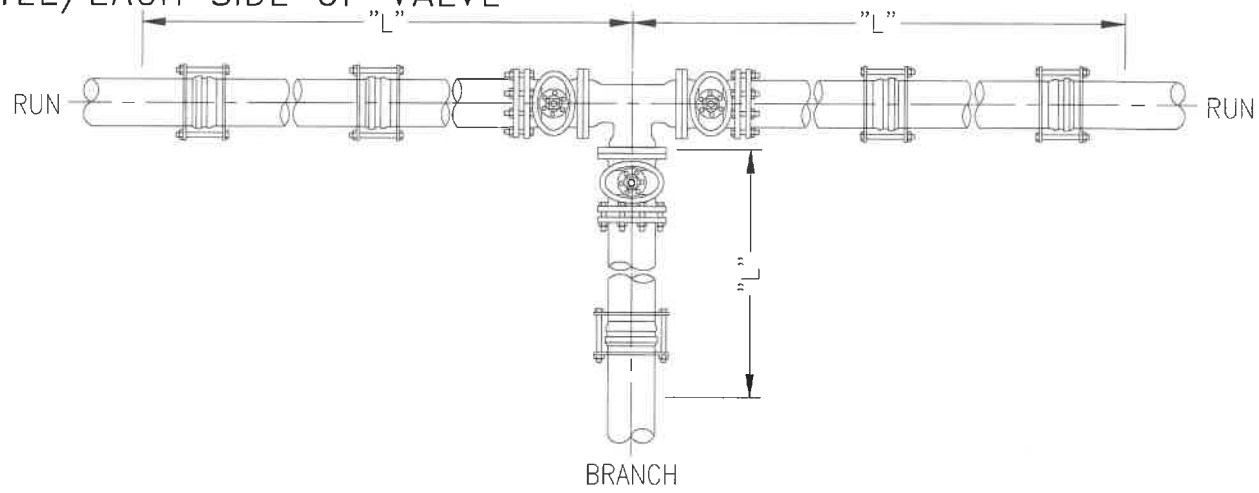
MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Twentynine Palms Water District 760.367.7546

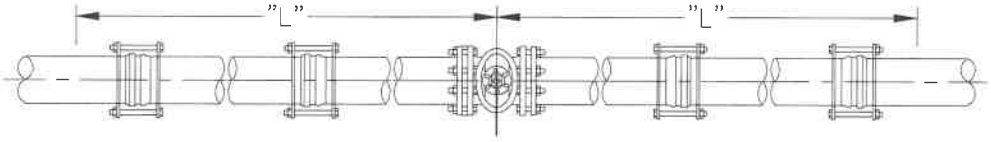
STANDARD DRAWING
TRENCH BACKFILL DETAIL

SCALE: NTS
DWG. NO.
SD-3

TEE/EACH SIDE OF VALVE

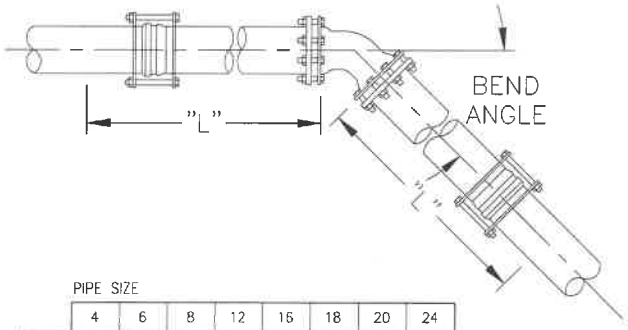


DEAD END/EACH SIDE OF VALVE



PIPE SIZE	4	6	8	12	16	18	20	24
RESTRAINED LENGTHS "L" IN FEET	59	84	110	156	202	223	245	287

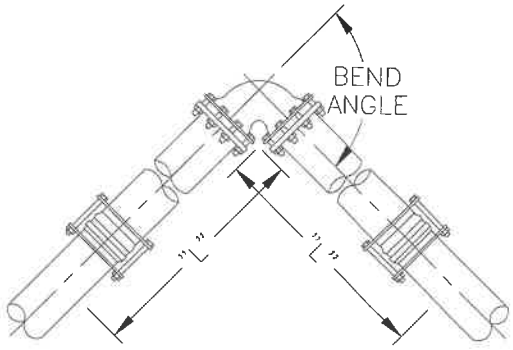
VERTICAL BEND



BEND ANGLE	PIPE SIZE 4	6	8	12	16	18	20	24
11.25°	6	8	11	15	20	22	24	28
22.5°	12	17	22	31	40	44	49	57
45°	25	35	46	65	84	92	102	119

RESTRAINED LENGTHS "L" IN FEET

HORIZONTAL BEND



BEND ANGLE	PIPE SIZE 4	6	8	12	16	18	20	24
11.25°	2	3	4	6	8	9	10	11
22.5°	5	7	9	13	16	18	19	23
45°	10	14	19	26	34	37	40	47
90°	25	34	45	63	81	89	98	113

RESTRAINED LENGTHS "L" IN FEET

RESTRAINT JOINT LENGTHS USAGE GENERAL NOTES

1. ALL JOINTS WITHIN LENGTH "L" MUST BE RESTRAINED.
2. PIPES SHALL HAVE FORTY-EIGHT (48) INCHES MINIMUM DEPTH OF COVER.
3. A SAFETY FACTOR OF 1.5 ASSUMED.
4. ASSUMED SOIL TYPE ML (INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS) PER UNITED SOIL CLASSIFICATION ASTM D 2487.
   A. NO BEDDING IN GRANULAR MATERIAL.
   B. NO USE OF PHI = 0 PRINCIPAL.
5. PIPE BEDDING PER SD-2.
6. TEST PRESSURE 10% OVER MINIMUM DESIGN PRESSURE. RESTRAINED LENGTHS ABOVE BASED UPON DESIGN PRESSURE OF 200 PSI.
7. IF ACTUAL CONDITIONS DIFFER FROM THOSE LISTED ABOVE OR THE REQUIRED RESTRAINED LENGTH CANNOT BE MET, THE RESTRAINED LENGTH SHALL BE DETERMINED BY THE DESIGN ENGINEER AND APPROVED BY THE TPWD.

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

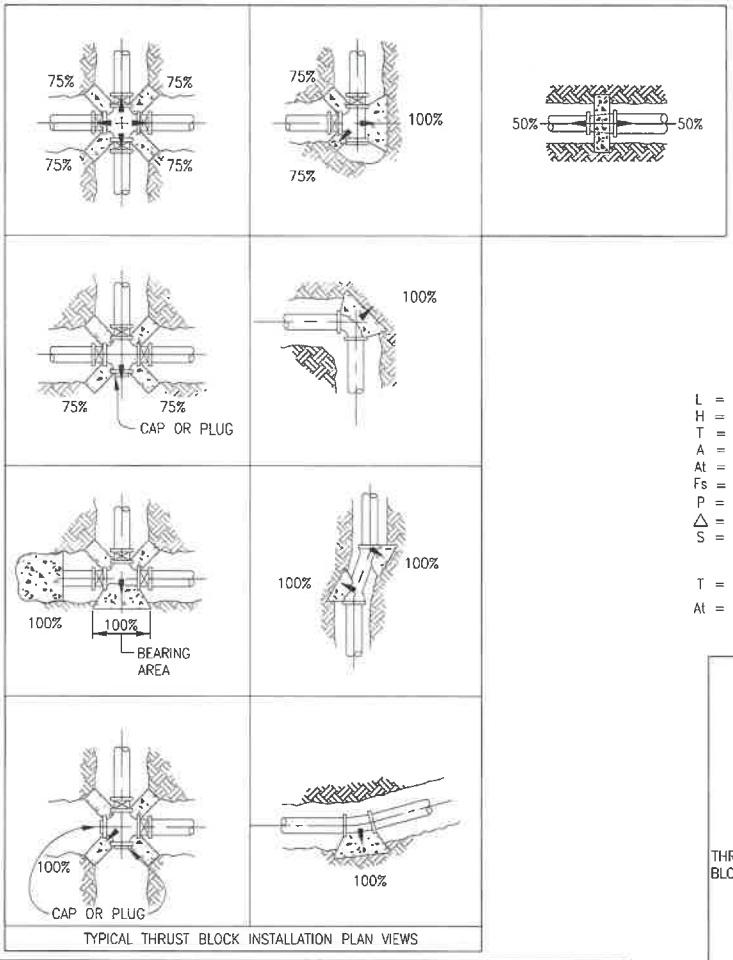
TPWD Terrytown Palms Water District 760.367.7646

STANDARD DRAWING

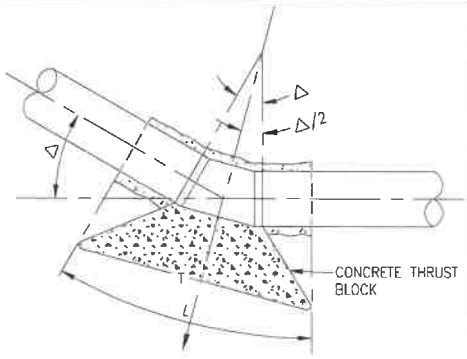
STANDARD RESTRAINT FOR TEES, DEAD ENDS, AND BENDS FOR PVC PIPE

SCALE: NTS

DWG. NO. SD-4



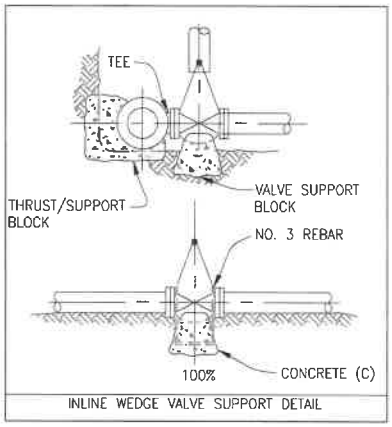
TYPICAL THRUST BLOCK INSTALLATION PLAN VIEWS



L = LENGTH OF CONCRETE THRUST BLOCK, IN FT.
H = HEIGHT OF CONCRETE THRUST BLOCK, IN FT.
T = THRUST AT BEND, IN LBS.
A = AREA OF PIPE (OUTSIDE DIA), IN SQ. INCHES.
At = AREA OF THRUST BLOCK
Fs = FACTOR OF SAFETY (1.25)
P = PIPE PRESSURE (TEST PRESSURE) IN P.S.I.
Δ = ANGLE AT BEND, IN DEGREES.
S = ALLOWABLE LATERAL SOIL BEARING PRESSURE (SEE SOIL REPORT).

$T = 2 \times P \times A \times \text{SIN}\frac{\Delta}{2}$

$At = Fs \times \frac{T}{S}$



INLINE WEDGE VALVE SUPPORT DETAIL

MINIMUM THRUST BLOCK INSTALLATION FOR UNRESTRAINED JOINTS AT 150 PSI AND 200 PSI

PIPE SIZE (IN.)	TYPE OF FITTING	SAFE SOIL BEARING (PSF)	THRUST BLOCK WIDTH (FT) X HEIGHT (FT) PRESSURE =150 PSI L	H	PRESSURE =200 PSI L	H	SAFE SOIL BEARING (PSF)	THRUST BLOCK WIDTH (FT) X HEIGHT (FT) PRESSURE =150 PSI L	H	PRESSURE =200 PSI L	H	SAFE SOIL BEARING (PSF)	THRUST BLOCK WIDTH (FT) X HEIGHT (FT) PRESSURE =150 PSI L	H	PRESSURE =200 PSI L	H
16	TEE	1500	8.25	4.25	9.50	4.75	2000	7.00	3.50	8.25	4.25	3000	5.75	3.00	6.75	3.50
16	90°	↓	9.75	5.00	11.25	5.75	↓	8.50	4.25	9.75	5.00	↓	7.00	3.50	8.00	4.00
16	45°		7.25	3.75	8.25	4.25		6.25	3.25	7.25	3.75		5.25	2.75	6.00	3.00
16	22.5°		5.25	2.75	6.00	3.00		4.50	2.25	5.25	2.75		3.75	2.00	4.25	2.25
16	11.25°		3.50	1.75	4.00	2.00		3.00	1.50	3.50	1.75		2.75	1.25	3.00	1.50
14	TEE		7.25	3.75	8.25	4.25		6.25	3.25	7.25	3.75		5.25	2.75	6.00	3.00
14	90°		8.50	4.25	10.00	5.00		7.50	3.75	8.50	4.25		6.00	3.00	7.00	3.50
14	45°		6.25	3.25	7.25	3.75		5.50	2.75	6.25	3.25		4.50	2.25	5.25	2.75
14	22.5°		4.50	2.25	5.25	2.75		4.00	2.00	4.50	2.25		3.25	1.75	3.75	2.00
14	11.25°		3.00	1.50	3.50	1.75		2.25	1.50	3.00	1.50		2.25	1.00	2.50	1.25
12	TEE		6.25	3.25	7.25	3.75		5.50	2.75	6.25	3.25		4.50	2.25	5.25	2.75
12	90°		7.50	3.75	8.50	4.25		6.50	3.25	7.50	3.75		5.25	2.75	6.00	3.00
12	45°		5.50	2.75	6.25	3.25		4.75	2.50	5.50	2.75		4.00	2.00	4.50	2.25
12	22.5°		4.00	2.00	4.50	2.25		3.50	1.75	4.00	2.00		2.75	1.50	3.25	1.75
12	11.25°		2.25	1.50	3.00	1.50		2.00	1.25	2.25	1.50		2.00	1.00	2.00	1.25
8	TEE		4.25	2.75	5.00	2.50		3.75	2.00	4.25	2.25		3.00	1.50	3.50	1.75
8	90°		5.25	2.75	6.00	3.00		4.50	2.25	5.25	2.75		3.75	2.00	4.25	2.25
8	45°		3.75	2.00	4.25	2.25		3.25	1.75	3.75	2.00		2.75	1.50	3.25	1.75
8	22.5°		2.75	1.50	3.25	1.75		2.50	1.25	2.75	1.50		2.00	1.00	2.25	1.25
8	11.25°		2.00	0.75	2.50	1.00		1.50	0.75	2.00	0.75		1.25	0.75	1.50	0.75
6	TEE		3.25	1.75	3.75	2.00		3.00	1.50	3.25	1.75		2.50	1.25	2.75	1.50
6	90°		4.00	2.00	4.50	2.25		3.50	1.75	4.00	2.00		2.75	1.50	3.25	1.75
6	45°		3.00	1.50	3.25	1.75		2.50	1.25	3.00	1.50		2.00	1.00	2.50	1.25
6	22.5°		2.25	1.25	2.50	1.25		1.75	1.00	2.25	1.25		1.50	0.75	1.75	1.00
6	11.25°		1.00	1.00	1.50	0.75		1.25	0.50	1.00	1.00		1.00	0.50	1.25	0.50
4	TEE		2.25	1.25	2.75	1.50		2.00	1.00	2.25	1.25		1.75	1.00	2.00	1.00
4	90°		2.75	1.50	3.25	1.75		2.50	1.25	2.75	1.50		2.00	1.00	2.25	1.25
4	45°		2.00	1.00	2.50	1.25		1.75	1.00	2.00	1.00		1.50	0.75	1.75	1.00
4	22.5°	↓	1.50	0.75	1.75	1.00	↓	1.25	0.75	1.50	0.75	↓	1.00	0.50	1.25	0.75
4	11.25°	1500	0.75	0.50	1.00	0.50	2000	0.75	0.50	0.75	0.50	3000	0.75	0.25	0.75	0.50

NOTES:

1. THRUST BLOCKS ARE ONLY ALLOWED IN SPECIAL CIRCUMSTANCES WHERE RESTRAINED MECHANICAL JOINTS CAN NOT BE USED.
2. THE SIZES SHOWN ARE TO BE CONSIDERED MINIMUM ALLOWABLE BEARING AREAS. ACTUAL THRUST BLOCK SIZES SHALL BE DESIGNED BASED ON ACTUAL IN-SITU SOIL CONDITIONS & DESIGN PRESSURE.
3. CONCRETE THRUST BLOCKS ARE TO BE POURED AGAINST UNDISTURBED EARTH.
4. CONCRETE THRUST BLOCKS SHALE BE OF CLASS 'C' (2000 PSI) CONCRETE.
5. ALL CONCRETE SHALL BE POURED TO AVOID ANY INTERFERENCE WITH BOLTED CONNECTIONS OR JOINTS.
6. FIGURE (100%) AT THRUST BLOCK INDICATES PERCENT OF TOTAL THRUST TO BE APPLIED FOR BEARING AREA. ARROW ( ) INDICATES THRUST DIRECTION.
7. THE TABLE AT LEFT IS BASED UPON TEST PRESSURE OF 200 P.S.I. FOR CLASS 150 AND 250 P.S.I. FOR CLASS 200.
8. KEY ALL THRUST BLOCKS INTO TRENCH WALL AND BOTTOMS.
9. FOR END PLUGS OR CAPS USE THRUST BLOCK EQUIVALENT TO TEE THRUST BLOCK.

REVISION NO.	DATE

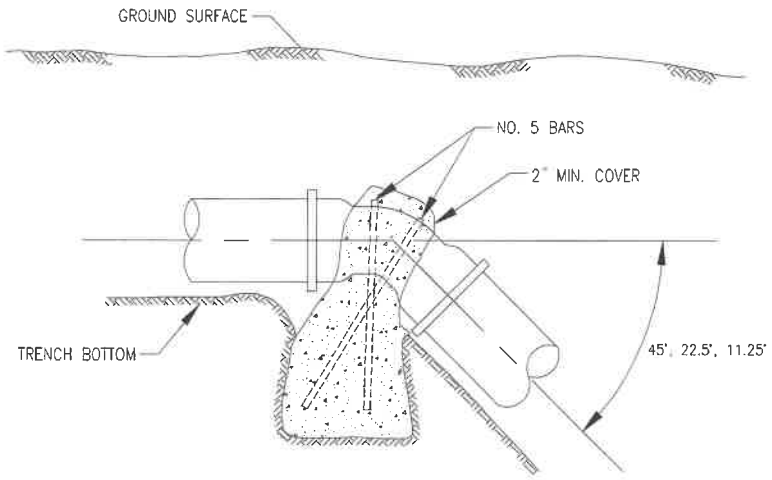
APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Terrebonne Parish Water District 985.851.2586

STANDARD DRAWING
TRUST BLOCK DETAILS

SCALE: NTS
DWG. NO.
SD-5



PIPE SIZE	CUBIC FT. OF CONCRETE					
	CLASS 150 TEST PRESS. 225 psi			CLASS 200 TEST PRESS. 300 psi		
	45°	22.5°	11.25°	45°	22.5°	11.25°
4	15	8	4	20	10	5
6	33	17	9	44	22	11
8	58	30	15	77	40	20
12	–	–	34	–	–	45

NOTES:

1. INDICATES ANCHOR BLOCK MUST BE DESIGNED FOR EACH INDIVIDUAL CASE.
2. THRUST BLOCKS ARE ONLY ALLOWED IN SPECIAL CIRCUMSTANCES WHERE RESTRAINED MECHANICAL JOINTS CAN NOT BE USED.
3. THE SIZES SHOWN ARE TO BE CONSIDERED MINIMUM ALLOWABLE BEARING AREAS. ACTUAL THRUST BLOCK SIZES SHALL BE DESIGNED BASED ON ACTUAL IN-SITU SOIL CONDITIONS & DESIGN PRESSURE.
4. CONCRETE THRUST BLOCKS ARE TO BE POURED AGAINST UNDISTURBED EARTH.
5. CONCRETE THRUST BLOCKS SHALE BE OF CLASS 'C' (2000 PSI) CONCRETE.
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8. THE TABLE AT LEFT IS BASED UPON TEST PRESSURE OF 200 P.S.I. FOR CLASS 150 AND 250 P.S.I. FOR CLASS 200.
9. KEY ALL THRUST BLOCKS INTO TRENCH WALL AND BOTTOMS.
10. FOR END PLUGS OR CAPS USE THRUST BLOCK EQUIVALENT TO TEE THRUST BLOCK.

REVISION NO.	DATE

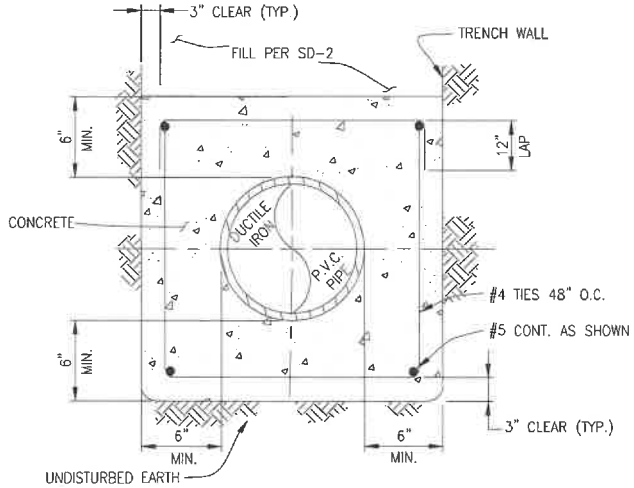
APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

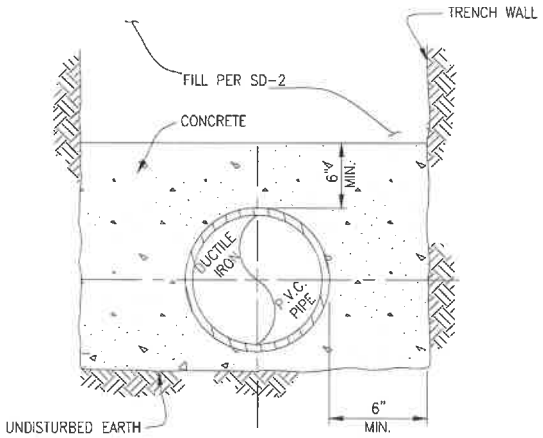
TPWD Terrebonne Palms Water District 780.367.7548

STANDARD DRAWING
ANCHOR BLOCK
(VERTICAL BEND)

SCALE: NTS
DWG. NO.
SD-6



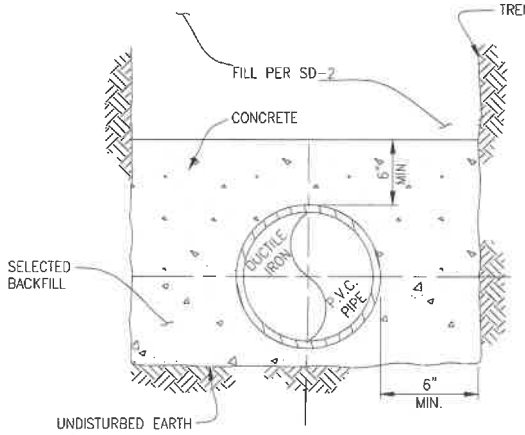
CONCRETE ENCASEMENT NO. 1



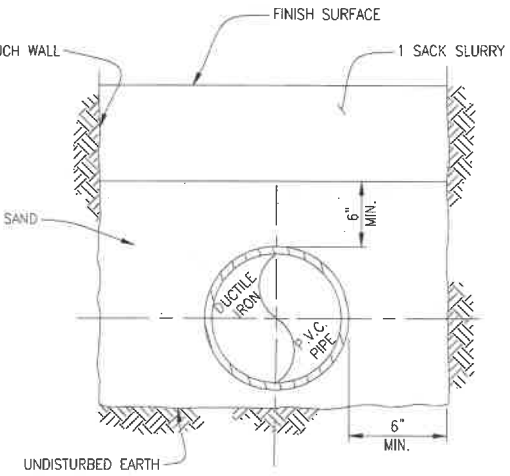
CONCRETE ENCASEMENT NO. 2

NOTES

1. PIPE SIZES GREATER THAN 16" REQUIRE SPECIFIC STRUCTURAL DESIGN.
2. CONCRETE ENCASEMENTS AND CONCRETE CAP SHALL BE CLASS "A" CONCRETE (3000 PSI).
3. PIPE MUST BE ANCHORED TO AVOID FLOTATION.



CONCRETE CAP



SLURRY BACKFILL

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

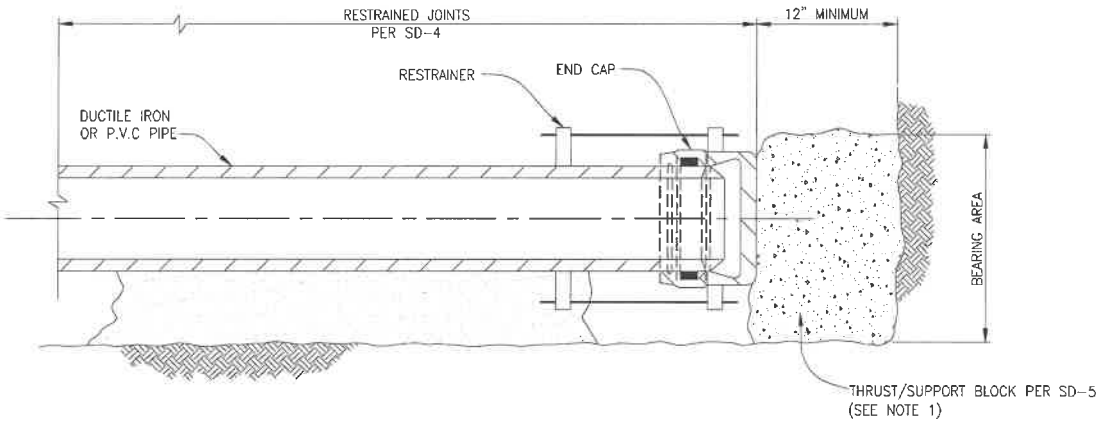
TPWD Terrytown Public Water District 760.567.3546

STANDARD DRAWING
CONCRETE ENCASEMENT AND CONCRETE CAP

SCALE: NTS

DWG. NO.

SD-7



NOTES

1. CONCRETE THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED EARTH WITH MINIMUM BEARING AREA PER SD-5.
2. CONCRETE THRUST BLOCKS SHALL BE OF CLASS "C" (2000 P.S.I.) CONCRETE MIN. 4-1/2 SACK MIX.

REVISION NO.	DATE

APPROVED: _____ (DATE)

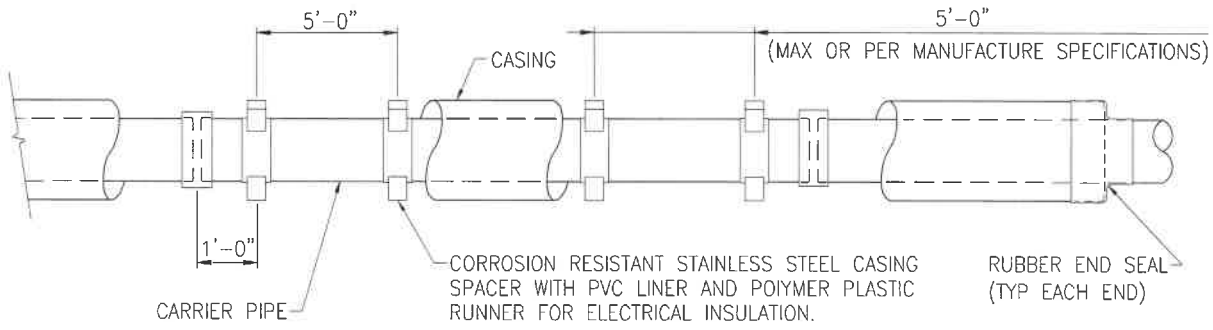
MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Terrell County Water District 760.367.7546

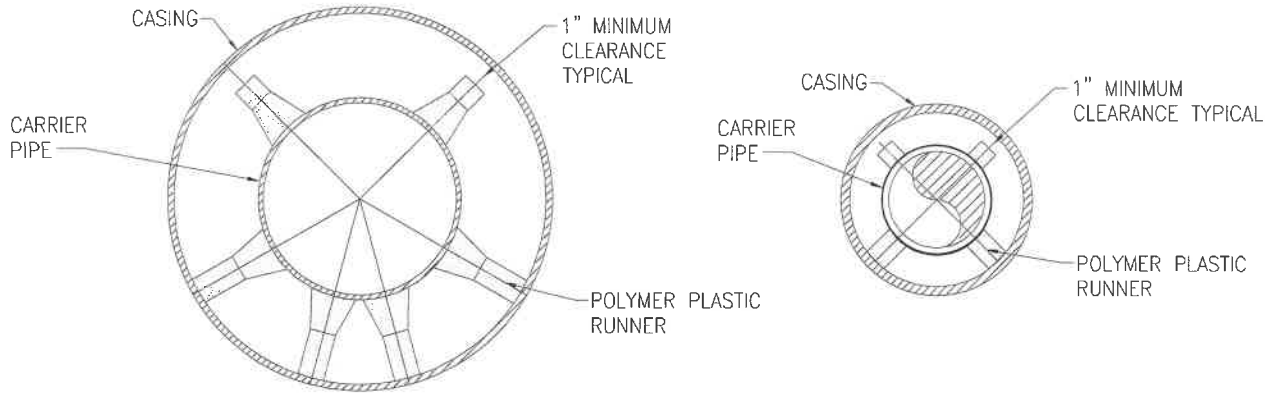
STANDARD DRAWING
END CAP
INSTALLATION

SCALE: NTS

DWG. NO.
SD-8



ELEVATION
NO SCALE



CARRIER PIPE
(SIZES 14" THRU 24")

CARRIER PIPE
(SIZES 4" THRU 12")

SECTION
NO SCALE

		CASING PIPE SELECTION	
		JACK & BORE	OPEN CUT TRENCH
CARRIER PIPE SIZE	CASING SIZE	STEEL CYLINDER THICKNESS	MATERIAL
6"	14"	1/4"	PVC (DR-14)
8"	16"	3/8"	PVC (DR-14)
12"	24"	3/8"	PVC (DR-14)
16"	30"	1/2"	1/4" CML&C STEEL
20"	36"	1/2"	1/4" CML&C STEEL
24"	42"	1/2"	1/4" CML&C STEEL

NOTES:

1. STEEL CASINGS SHALL BE SMOOTH STEEL PIPE WITH FULLY WELDED JOINTS.
2. CARRIER PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS WITH RESTRAINED JOINTS.
3. CARRIER PIPE SHALL BE TESTED BEFORE SEALING ENDS OF CASING.
4. CASING SPACERS SHALL BE LUBRICATED AS NECESSARY BASED ON MANUFACTURES RECOMMENDATION, AS APPROVED BY TPWD, TO FACILITATE CARRIER PIPE INSTALLATION.
5. ANY VOIDS CREATED BY BORING, JACKING, OR TUNNELING CASING PIPE SHALL BE FILLED BY PRESSURE GROUTING.
6. ANNULAR SPACE INSIDE CARRIER PIPE SHALL NOT BE FILLED UNLESS OTHERWISE SPECIFIED.
7. CATHODIC TESTING SHALL BE DESIGNED AND INSTALLED ON ALL STEEL CASINGS. SEE SD-10 FOR INSULATED TEST CONNECTION DETAIL.

* MATERIALS LISTED ARE MINIMUM VALUES ONLY. DESIGN ENGINEER IS TO DESIGN AND SLECT ACTUAL MATERIALS BASED ON IN-SITU SITE CONDITIONS SUCH AS DEPTH, SOIL CORROSIVITY, LOADING CONDITIONS, ETC. ON ALL CASINGS.

REVISION NO.	DATE

APPROVED: _____ (DATE)

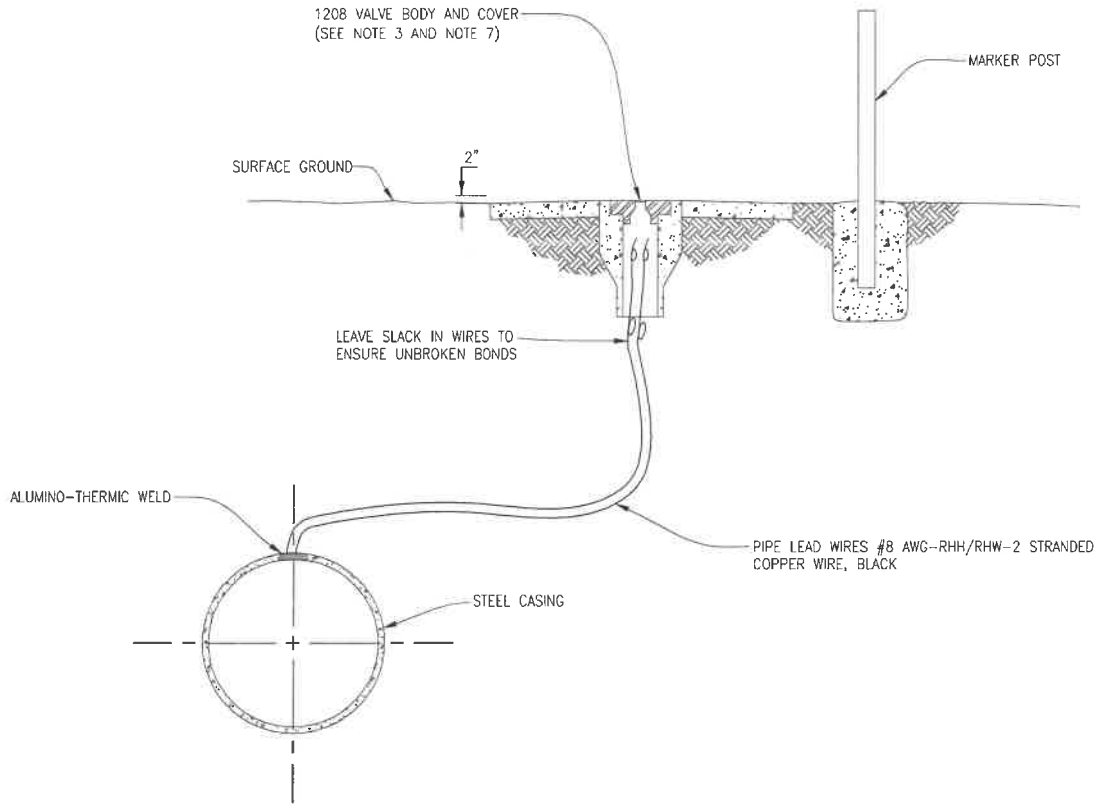
MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Terramonte Palms Water District 760.367.7546

STANDARD DRAWING
STEEL CASING

SCALE: NTS

DWG. NO.
SD-9



NOTES:

1. WELD LEAD WIRES TO PIPE AFTER INSTALLATION IN TRENCH.
2. LEAD WIRES SHALL HAVE A BURY DEPTH OF 5' (MIN.) AT CURB OR SHOULDER OF ROAD WITH 3" WIDE MARKING TAPE 24" ABOVE WIRE LABELED "CAUTION: BURIED CATHODIC PROTECTION LINE"
3. REFER TO SD-13 OR SD-14 FOR CP TEST STATION PLACEMENT.
4. TERMINATE ALL WIRES PER TPWD REQUIREMENTS.
5. LEAD WIRES SHALL BE COLORED AND TAGGED PER TPWD REQUIREMENTS.
6. TEST STATIONS SHALL BE INSTALLED AT EACH END OF THE STEEL CASING OR AS INDICATED BY CONTRACT DRAWINGS.
7. VALVE BOX AND COVER BASED ON SOUTH BAY FOUNDRY #1208N OR APPROVED EQUAL.

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

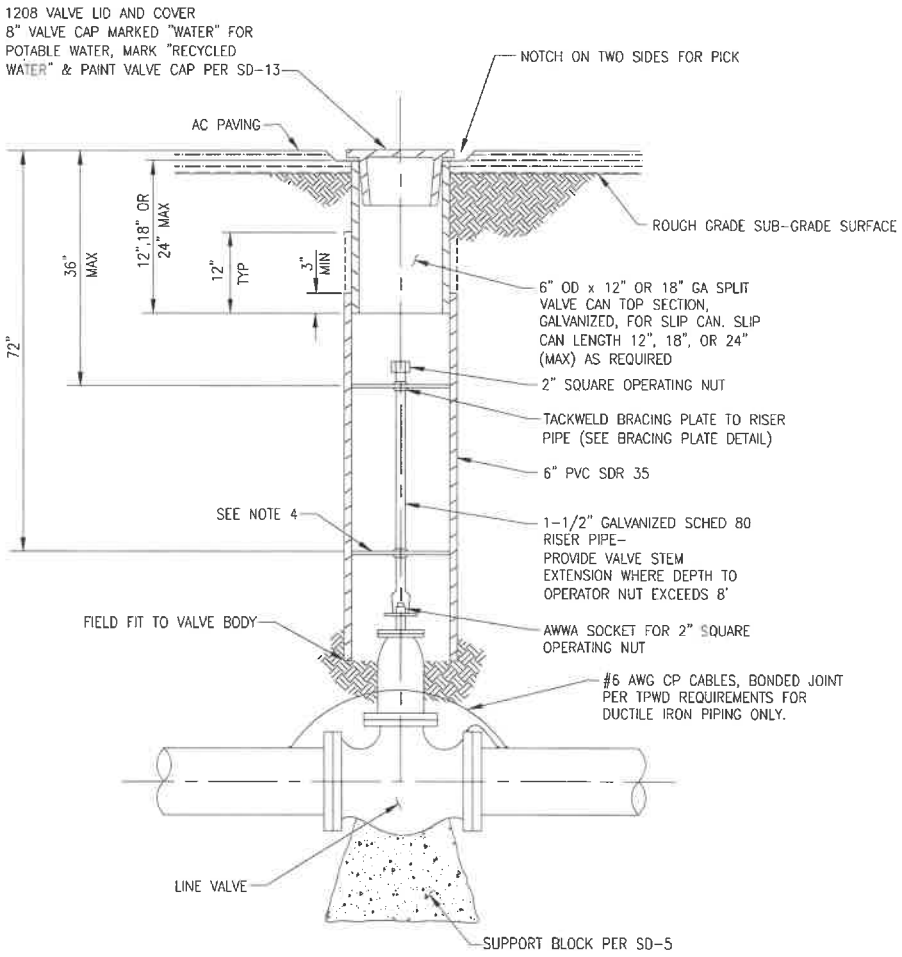
TPWD Terrytowne Public Water District 760.367.7546

STANDARD DRAWING
CATHODIC PROTECTION
TEST STATION
FOR STEEL CASING

SCALE: NTS

DWG. NO.

SD-10



VALVE COVER AND RISER DETAIL

NOTES

1. CONTRACTOR SHALL RAISE SLIP CAN TO FINISH STREET GRADE, WHERE PAVING IS PROPOSED.
2. IN UNPAVED AREAS, CONTRACTOR SHALL LEAVE CAP AND SPLIT SLIP CAN 6" BELOW FINISH GRADE (IE GRADED SHOULDERS).
3. FOR UNPAVED ROADS ONLY
   SET TOP OF VALVE CAN (COVERED) MIN 6" BELOW ROUGH-GRADED SUB-GRADE TO AVOID DAMAGE DURING FINE GRADING AND SCARIFYING OPERATION.
4. WHERE RISER PIPE IS PRESENT AT 72" BELOW GRADE, PROVIDE ADDITIONAL BRACING PLATE.

REVISION NO.	DATE

APPROVED: _____ (DATE)

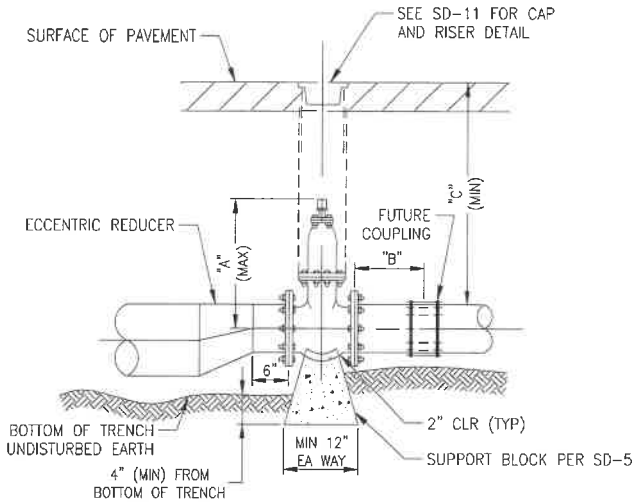
MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Terrebonne Parish Water District 780.397.3546

STANDARD DRAWING
VALVE CAP AND RISER DETAIL

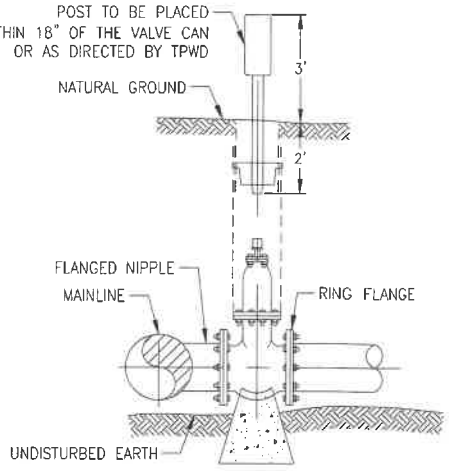
SCALE: NTS
DWG. NO.
SD-11

14" DIAMETER AND LARGER STEEL PIPELINE INSTALLATION



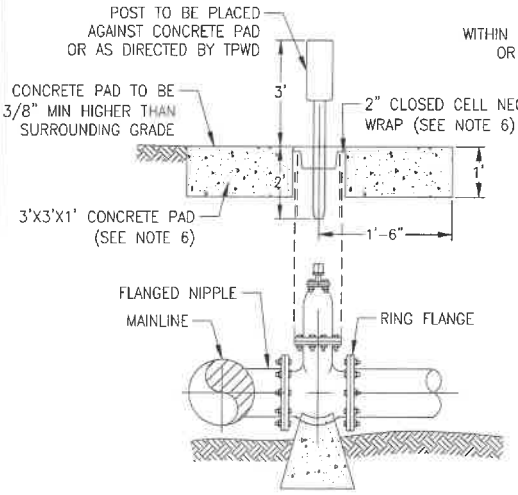
IN-LINE VALVE INSTALLATION

PAVED STREET
(PIPE COATING NOT SHOWN)
N.T.S.



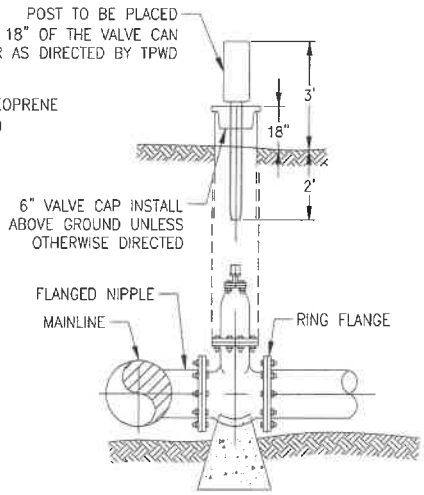
BURIED VALVE COVER DETAIL

UNIMPROVED ROADWAY
N.T.S.



CONCRETE PAD DETAIL

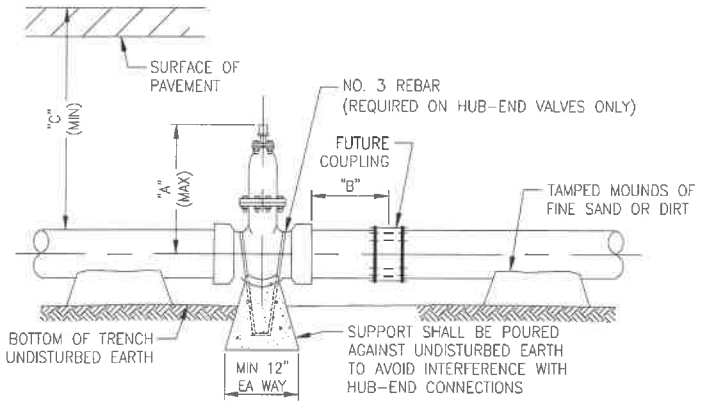
UNIMPROVED ROADWAY
N.T.S.



ELEVATED VALVE COVER DETAIL

OPEN FIELD
N.T.S.

GATE VALVE SIZE	TABULATED DIMENSIONS		
	DIMENSIONS		
	VALVE HEIGHT "A"	COUPLING NIPPLE "B"	ABS. MIN. COVER "C
4"	19"	1'-6"	1'-7"
6"	23"	1'-6"	1'-9"
8"	28"	1'-6"	2'-0"
10"	31"	1'-6"	2'-4"
12"	36"	2'-0"	2'-8"
14"	41"	2'-0"	3'-0"
16"	47"	2'-0"	3'-5"
18"	51"	2'-0"	3'-8"
20"	56"	2'-0"	3'-11"



PVC AND DI PIPELINE INSTALLATION FOR 4" DIAMETER AND LARGER

NOTES:

1. ALL FLEXIBLE JOINTS IN PIPELINES UPSTREAM FROM VALVES OR IN BRANCH LINE SHALL BE WELDED OR RESTRAINED IN ACCORDANCE WITH THE SPECIFICATIONS AND CONTRACT DRAWINGS TO PROVIDE ANCHORAGE FOR UNBALANCED FORCES.
2. ALL STEEL FLANGES SHALL BE COATED IN FIELD WITH AN APPROVED COATING PER TWPD SPECIFICATIONS.
3. ALL STEEL PIPE AND FITTINGS SHALL BE COATED WITH THE SAME MATERIALS AS SUPPLIED ON THE PIPE.
4. VALVES 20" & LARGER REQUIRE ENGINEER'S APPROVAL.
5. RECYCLED WATER PIPELINE SHALL HAVE LOCATOR TAPE INSTALLED. TAPE TO BE (3") THREE INCHES WIDE AND PLACED ABOVE THE RECYCLED WATER LINE STATING IN (2") TWO INCH HIGH LETTERING, "CATION RECYCLED WATER", THE COLOR OF THE TAPE SHALL BE PURPLE-PANATONE 512C.
6. CONCRETE PAD SHALL BE OF CLASS "A" CONCRETE 3000 PSI.
   A. CLOSED CELL NEOPRENE PER ASTM D-1056, D-1667σ & D-412;
      - COMPRESSION RESISTANCE = 5-13 PSI
      - 50% COMPRESSION SET = 25%
      - DENSITY = 15-30 LBS/FT^3
      - WATER ABSORPTION = 0.1 MAX LBS/FT^2
      - TENSILE = 150 MIN. PSI
      - ELONGATION = 350 MIN. %

REVISION NO.	DATE

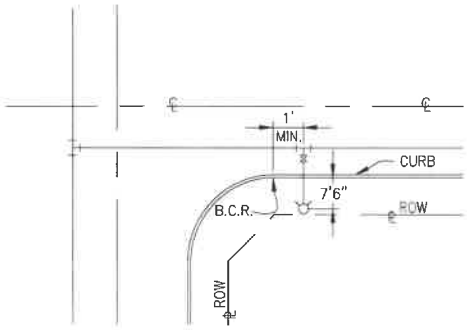
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MATTHEW SHRAGGE
GENERAL MANAGER

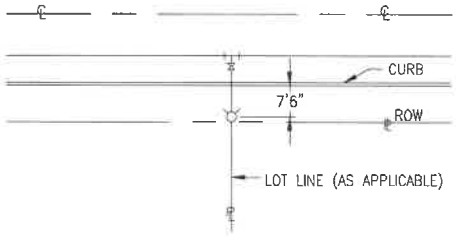
TPWD Terrebonne Parish Water District 780.357.7548

STANDARD DRAWING
GATE VALVE INSTALLATION

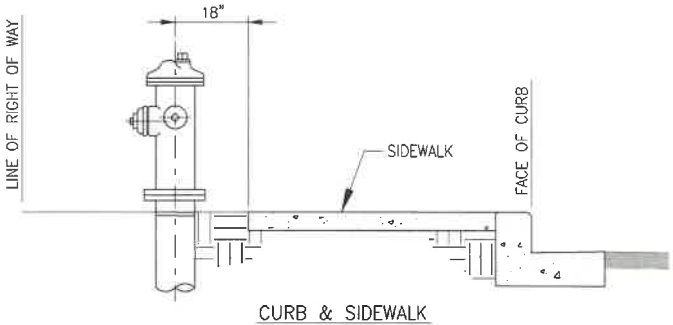
SCALE: NTS
DWG. NO.
SD-12



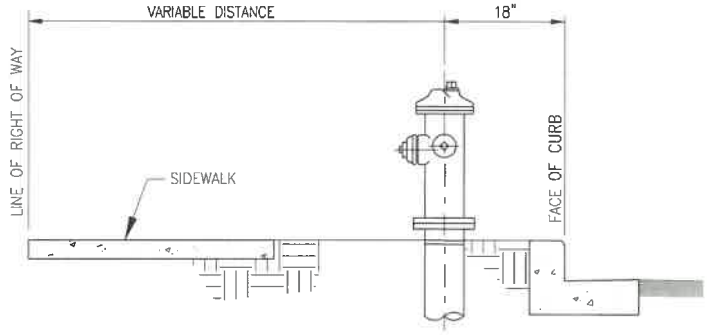
INTERSECTIONS



LOT LINES



CURB & SIDEWALK
ADJACENT



CURB & SIDEWALK
SEPARATED

NOTES:

1. PAINTING OF HYDRANTS:
   - A. HYDRANTS TO BE PAINTED WITH APPROVED SAFETY YELLOW, PER TPWD REQUIREMENTS.
   - B. PRIVATE HYDRANTS SHALL BE PAINTED BLUE.
   - C. HYDRANT TOPS & NOZZLE TOPS, WITH CAPACITY GREATER THAN 999 G.P.M. TO BE YELLOW.
   - D. HYDRANT TOPS & NOZZLE TOPS, WITH CAPACITY FROM 500-999 G.P.M. TO BE GREEN.
   - E. HYDRANT TOPS & NOZZLE TOPS, WITH CAPACITY LESS THAN 500 G.P.M. TO BE RED.
2. FIRE HYDRANT SHALL BE PLACED
   - A. I. 18" BEHIND CURB FACE WHEN PROPOSED OR EXISTING SIDEWALK IS 8' OR WIDER.
     II. 18" BEHIND BACK OF SIDEWALK WHEN PROPOSED OR EXISTING SIDEWALK IS LESS THAN 8' WIDE.
     III. ON PROPERTY LINE WHEN NO SIDEWALK IS EXISTING OR TO BE INSTALLED UPON COMPLETION OF WATER SYSTEM.
   - B. 1' AWAY FROM INTERSECTION OF SIDEWALK WITH CORNER APRON AS MEASURED ALONG THE CURB'S EDGE.
   - C. ON LOT LINES EXCEPT AT STREET INTERSECTIONS.
3. ALL APPURTENANCES WILL BE STAKED FOR LOCATION AND ELEVATION.
4. CONCRETE FOR THRUST BLOCKS AND SUPPORTS TO BE CLASS "C" (2000 P.S.I.) CONCRETE.
5. GUARD POSTS ARE NOT REQUIRED WHERE FIRE HYDRANTS ARE ADJACENT TO CURB OR SIDEWALKS OR AS DIRECTED BY TPWD.
6. APPURTENANCES SHALL INCLUDE THE FOLLOWING, BUT ARE NOT LIMITED TO: AIR/VAC RELEASE ASSEMBLIES, BLOW OFF ASSEMBLIES, TEST STATIONS, WATER METER BOXES AND FIRE HYDRANTS.
7. ALL FIRE HYDRANTS, BLOW OFFS, DETECTOR CHECKS, AIR VAC ASSEMBLIES AND METER SERVICES, WILL BE LOCATED OUT OF DRIVEWAYS, SIDEWALKS, WALKWAYS AND/OR ANY CONCRETE STRUCTURES. ALL APPURTENANCES SHALL BE PLACED IN LAWN OR PLANTER AREAS WHERE AVAILABLE, OR OTHERWISE AS APPROVED BY TPWD.
8. LANDSCAPING AROUND ALL APPURTENANCES IS LIMITED TO GROUND COVER 6" OR LESS IN HEIGHT WITHIN 2' OF APPURTENANCES.
9. SEE DRAWING SD-14 FOR APPURTENANCE LOCATIONS IN UNIMPROVED STREETS WITHOUT CURBS.
10. PAINTING OF VALVE CANS - BLUE
11. MINIMUM 5' HORIZONTAL SEPARATION BETWEEN WATER AND SEWER SERVICE LATERALS.
12. SPECIFIC JURISDICTIONAL (CITY OR COUNTY) REQUIREMENTS FOR SETBACK AND/OR PLACEMENT OF FIRE HYDRANTS/APPURTENANCES WILL GOVERN, AND SHALL BE DENOTED ON PLANS IF DIFFERENT THAN SHOWN HEREON.

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

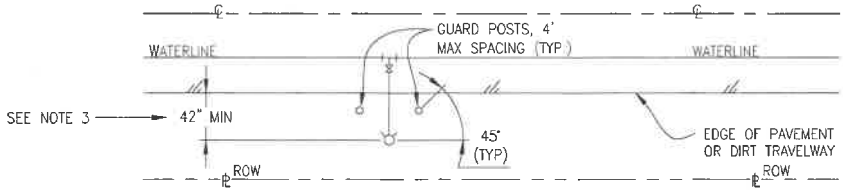
TPWD Terrell County Water District 760.367.7546

STANDARD DRAWING

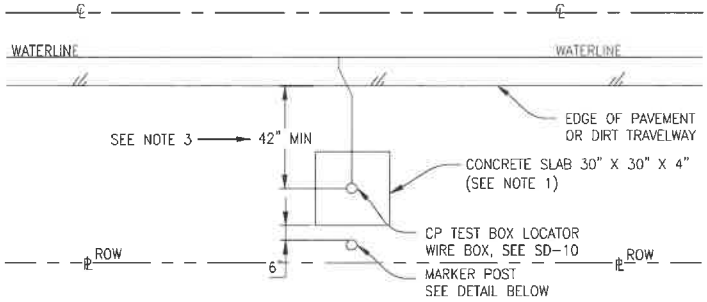
FIRE HYDRANT AND APPURTENANCE LOCATIONS (IMPROVED STREETS)

SCALE: NTS

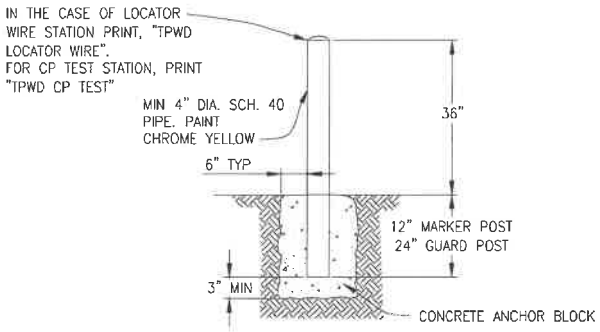
DWG. NO. SD-13



FIRE HYDRANT/APPURTENANCE INSTALLATIONS



CP TEST STATION,
LOCATOR WIRE STATION



GUARD/MARKER POST DETAIL

NOTES:

1. MARKER POST AND CONCRETE SLAB WILL NOT BE REQUIRED FOR LOCATOR WIRE BOX AND CP TEST BOX SITUATED IMMEDIATELY ADJACENT TO A FIRE HYDRANT, OR APPURTENANCE WHERE, AS CONFIRMED BY TPWD, ADEQUATE PROTECTION EXIST.
2. REFER TO APPLICABLE NOTES ON DRAWING NO. SD-13.
3. INSTALL HYDRANT ADJACENT TO THE PROPERTY LINE WHEN NO CURB OR SIDEWALK EXISTS, OR WHEN NEITHER WILL BE INSTALLED UPON PROJECT COMPLETION. LOCATE THE HYDRANT WITH SUFFICIENT OFFSET SUCH THAT IT DOES NOT ENCROACH ONTO THE ADJACENT PROPERTY.
4. SPECIFIC JURISDICTIONAL (CITY OR COUNTY) REQUIREMENTS FOR SETBACK AND/OR PLACEMENT OF FIRE HYDRANTS/APPURTENANCES WILL GOVERN, AND SHALL BE DENOTED ON PLANS IF DIFFERENT THAN SHOWN HEREON.

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Terrytown Plains Water District 761.367.7546

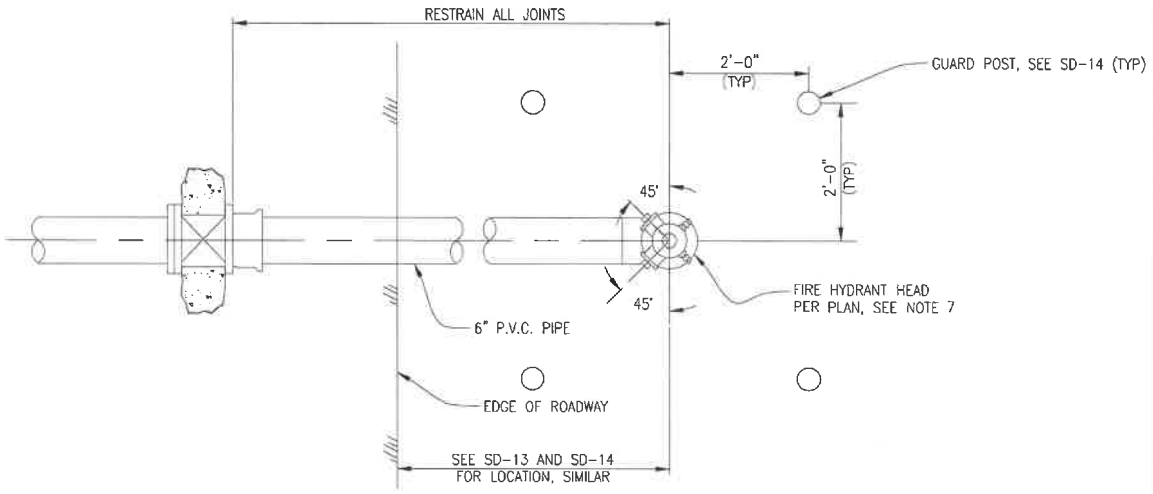
STANDARD DRAWING

FIRE HYDRANT AND APPURTENANCE LOCATIONS (UNIMPROVED STREETS)

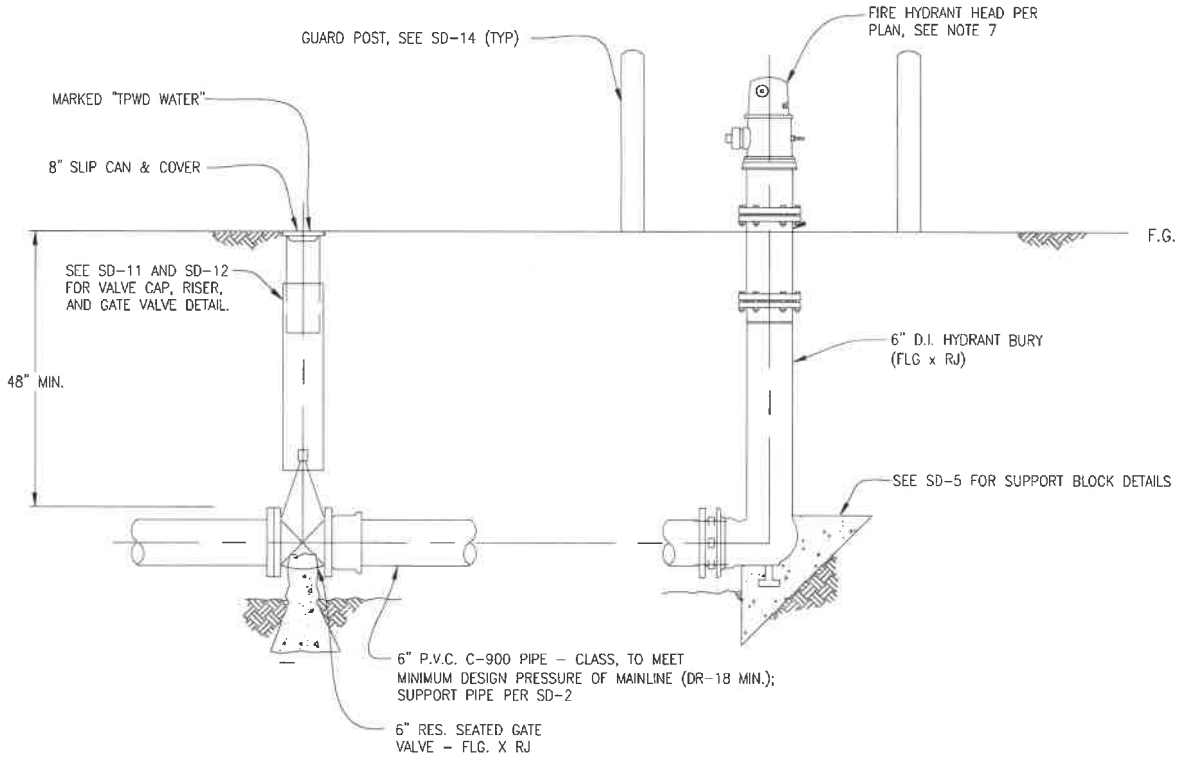
SCALE: NTS

DWG. NO.

SD-14



PLAN



PROFILE

NOTES:

1. REFER TO SD-13 AND SD-14, "APPURTENANCE LOCATIONS AND NOTES"
2. FIRE HYDRANTS TO BE PAINTED PER SD-13.
3. GROUT ALL BARE STEEL AND IRON.
4. COLD-APPLY WAX TAPE COATING TO ALL BOLTS, NUTS AND FLANGES.
5. REFER TO SD-2 FOR LOCATOR WIRE REQUIREMENT AND INSTALLATION.
6. INSTALL BLUE RETRO REFLECTING PAVEMENT MARKER PER FIRE DEPARTMENT STANDARDS.
7. REFER TO SD-16 OR SD-17, SIMILAR.

REVISION NO.	DATE

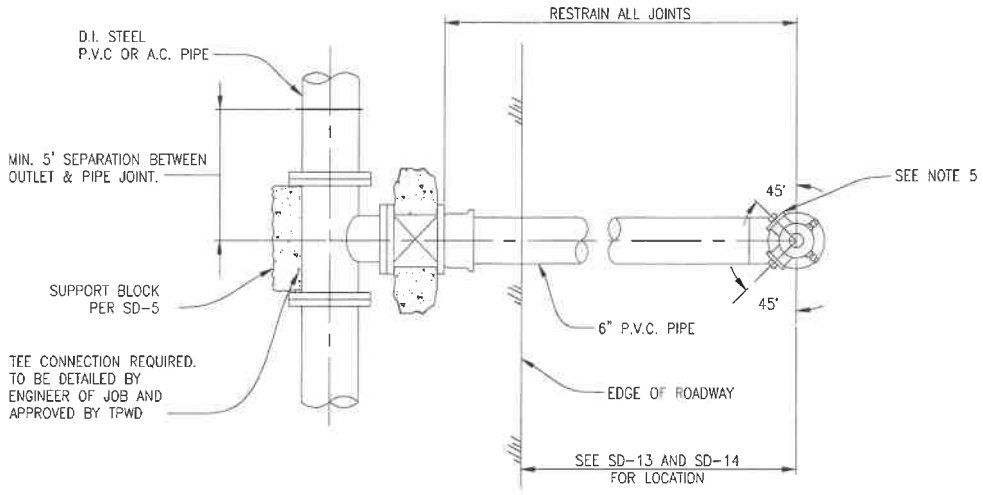
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MATTHEW SHRAGGE
GENERAL MANAGER

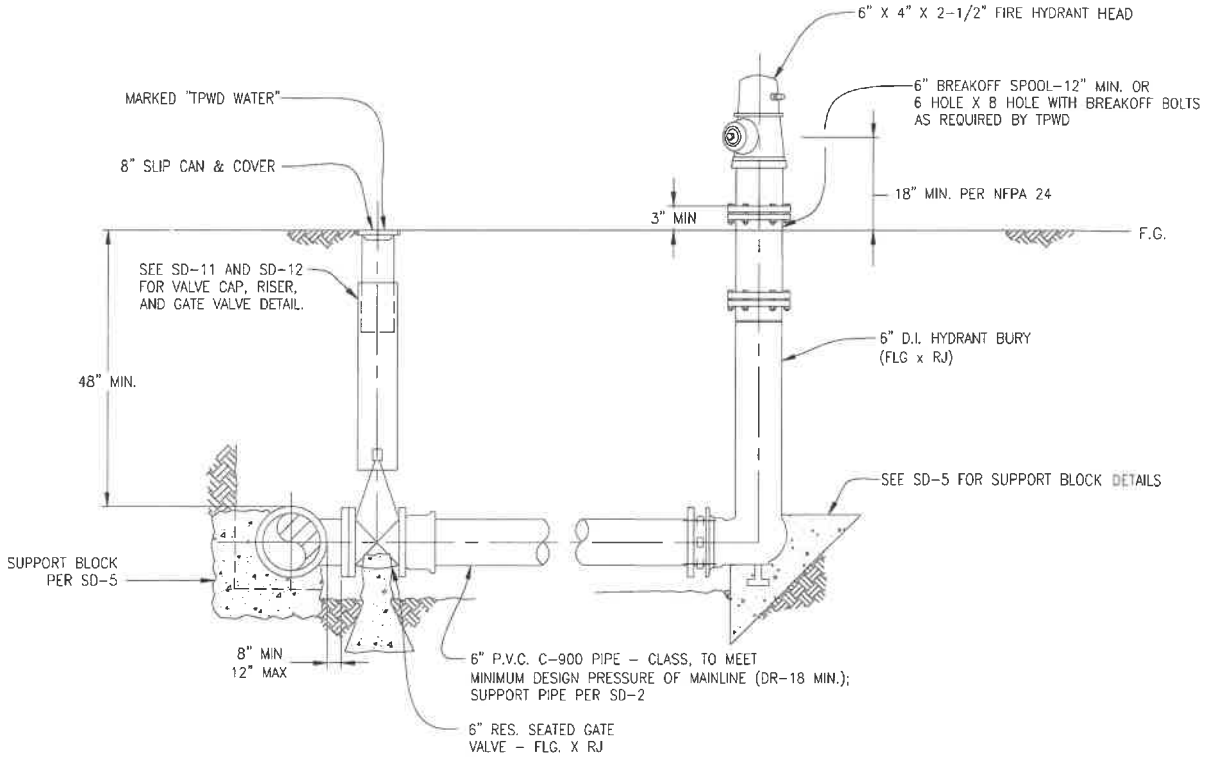
TPWD Terrytowne-Palms Water District 780.357.7548

STANDARD DRAWING
WATER PIPELINE
DEAD-END FIRE HYDRANT

SCALE: NTS
DWG. NO.
SD-15



PLAN



PROFILE

NOTES:

1. REFER TO SD-13 AND SD-14, "APPURTENANCE LOCATIONS AND NOTES".
2. FIRE HYDRANTS TO BE PAINTED PER SD-13.
3. GROUT ALL BARE STEEL AND IRON.
4. COLD-APPLY WAX TAPE COATING TO ALL BOLTS, NUTS AND FLANGES.
5. DIRECTION OF OUTLETS SHALL BE AT 45° POINTED TOWARDS THE STREET.
6. REFER TO SD-2 FOR LOCATOR WIRE REQUIREMENT AND INSTALLATION.
7. INSTALL BLUE RETRO REFLECTING PAVEMENT MARKER PER FIRE DEPARTMENT STANDARDS.

REVISION NO.	DATE

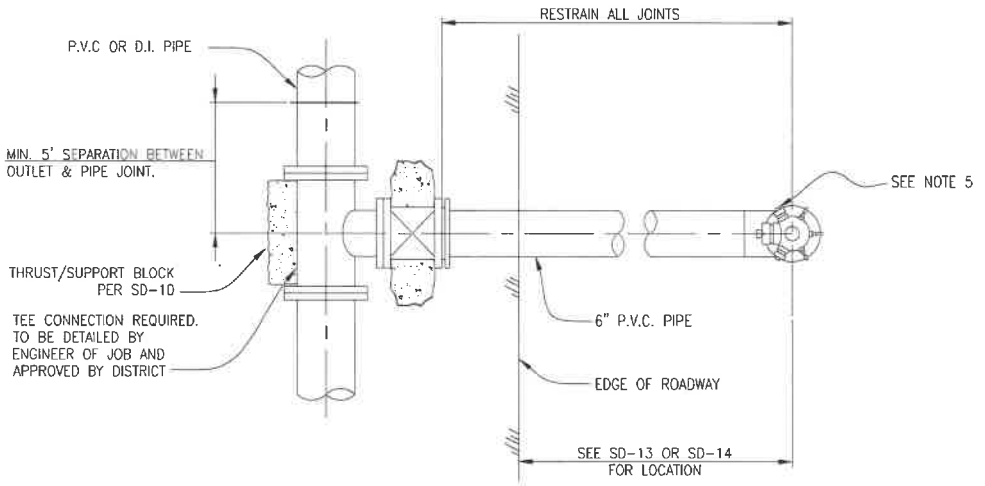
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MATTHEW SHRAGGE
GENERAL MANAGER

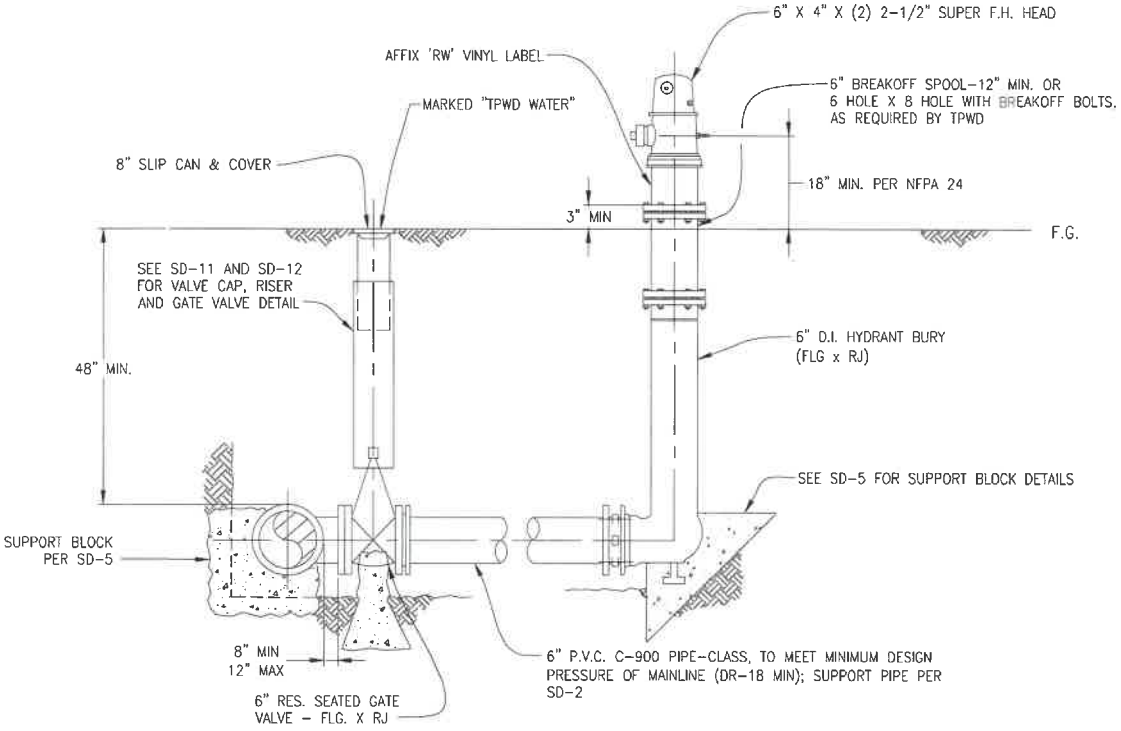
TPWD Terrytown Public Water District 703.367.7586

STANDARD DRAWING
6" FIRE HYDRANT ASSEMBLY

SCALE: NTS
DWG. NO.
SD-16



PLAN



PROFILE

NOTES:

1. REFER TO SD-13 OR SD-14, "APPURTENANCE LOCATIONS & NOTES."
2. FIRE HYDRANTS TO BE PAINTED PER SD-13.
3. GROUT ALL BARE STEEL AND IRON.
4. COLD-APPLY WAX TAPE COATING TO ALL BOLTS, NUTS, AND FLANGES.
5. LARGE OUTLET TO BE POINTED TOWARDS THE STREET.
6. REFER TO SD-2 FOR LOCATOR WIRE REQUIREMENT AND INSTALLATION.
7. INSTALL BLUE RETRO REFLECTING PAVEMENT MARKER PER FIRE DEPARTMENT STANDARDS.

REVISION NO.	DATE

APPROVED: _____ (DATE)

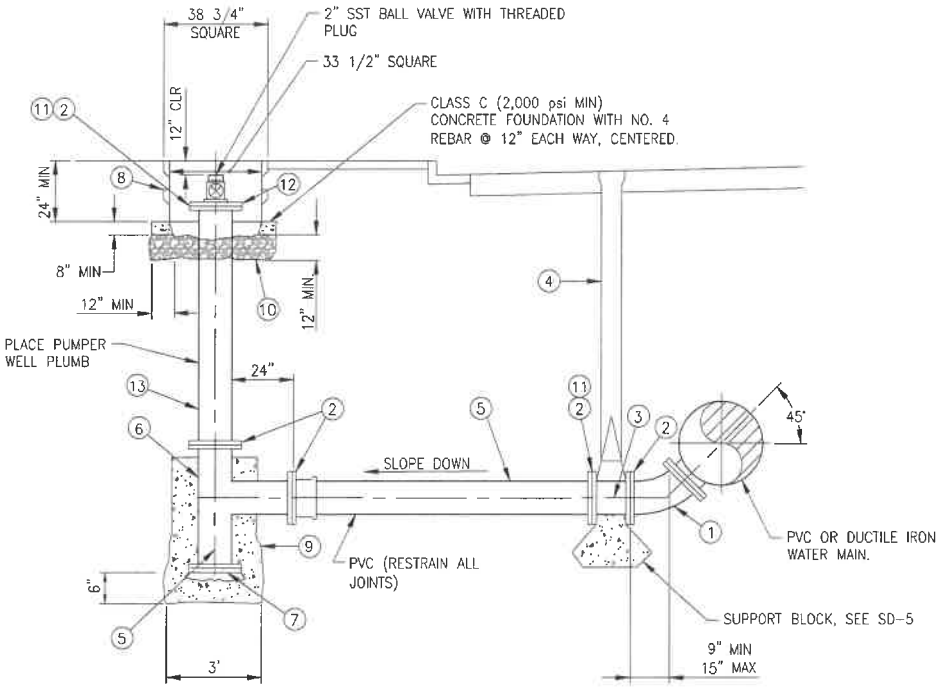
MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Terrebonne Parish Water District 985.868.7546

STANDARD DRAWING
SUPER FIRE HYDRANT ASSEMBLY

SCALE: NTS

DWG. NO. SD-17



① FLANGED DUCTILE IRON TEE WITH FLANGED DUCTILE IRON 45° ELBOW

② FLANGE.

③ FLANGED RESILIENT SEATED GATE VALVE PER SD-12.

④ VALVE CAP RISER PER STD. DWG. SD-11.

⑤ PVC C-900 W /DI FITTINGS.

⑥ DI TEE. (FLANGED)

⑦ BLIND FLANGE.

⑧ PRECAST CONCRETE VAULT, BROOKS 733A WITH 3/8" BOLT DOWN DIAMOND PLATE STEEL COVER.

⑨ CONCRETE THRUST/SUPPORT BLOCK (5' X 3' X 3'), PLACED AGAINST UNDISTURBED EARTH. CONCRETE SHALL BE CLASS 'C' (2,000 psi MIN) CONCRETE.

⑩ 1" CRUSHED ROCK BASE.

⑪ 2' CUT TO FIT. SHIP FLANGE LOOSE.

⑫ COMPANION FLANGE W/ 2" THREADED OUTLET

⑬ FLANGED DUCTILE IRON SPOOL

MAIN	BLOW OFF SIZE
8"-24"	6"

NOTES:

1. GROUT ALL BARE STEEL AND IRON.
2. COLD-APPLY WAX TAPE COATING TO ALL BOLTS, NUTS AND FLANGES PER SPECIFICATIONS.
4. PLACEMENT OF BLOW-OFF SHALL BE PER SD-13 AND SD-14.

REVISION NO.	DATE

APPROVED: _____ (DATE)

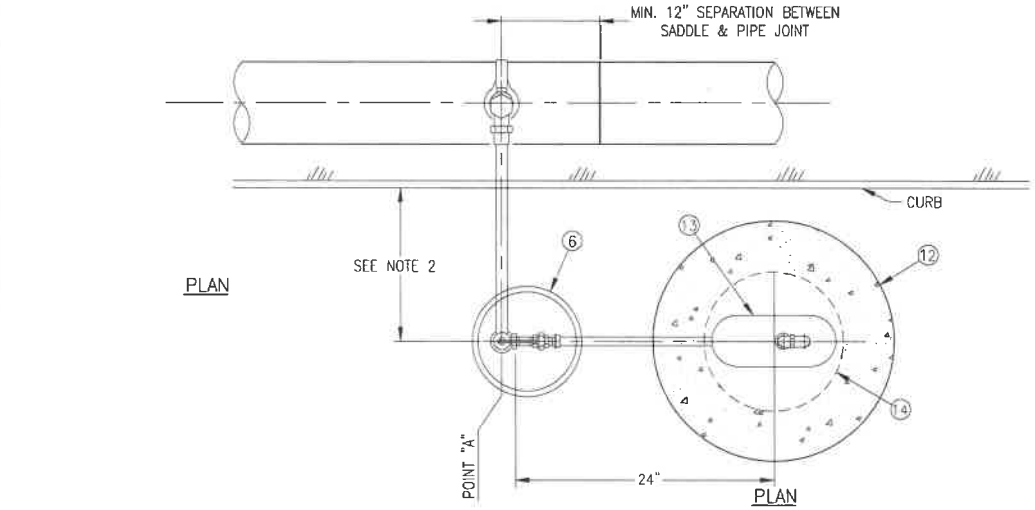
MATTHEW SHRAGGE
GENERAL MANAGER

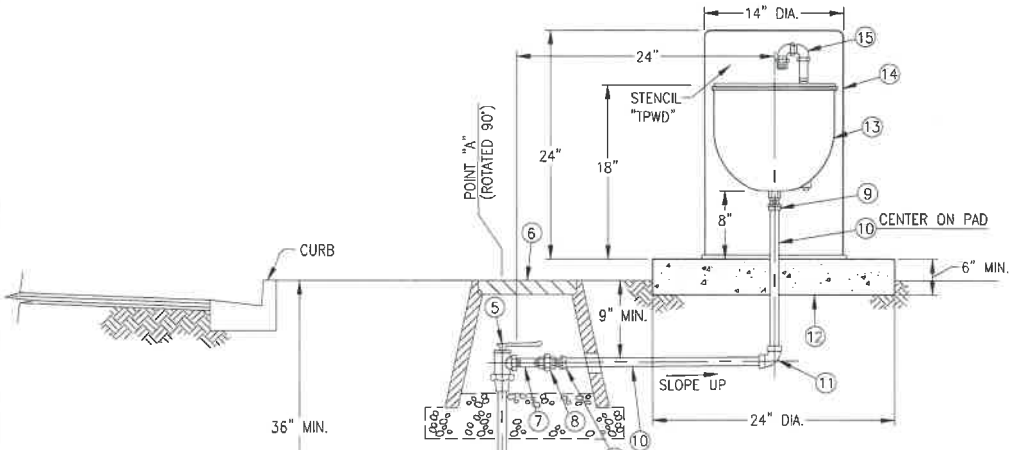
TPWD Twentynine Palms Water District 760.367.7546

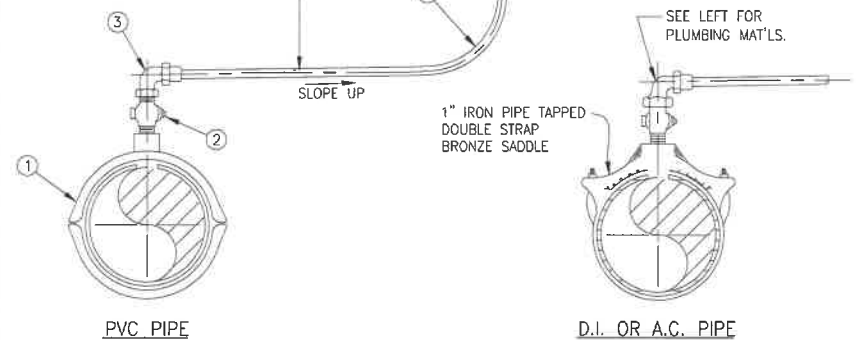
STANDARD DRAWING
6" BLOW-OFF ASSEMBLY

SCALE: NTS

DWG. NO.
SD--18







NOTES:

1. ALL BURIED BRASS/COPPER TUBING AND FITTINGS SHALL BE DOUBLE TAPE WRAPPED/COVERED WITH POLYPIPE TAPE GUARD: BLUE–POTABLE WATER; PURPLE–RECYCLED WATER.
2. REFER TO SD–13 OR SD–14 FOR PLACEMENT.
3. LANDSCAPING AROUND AIR VAC ASSEMBLY IS LIMITED TO GROUND COVER 6" OR LESS IN HEIGHT WITHIN 2' OF ASSEMBLY.

NO.	DESCRIPTION	QTY.
1	1"x 2" WIDE STRAP SERVICE SADDLE	1
2	1" BRASS CORP. STOP (MNPT)	1
3	1" 90° BRASS BEND (FNPT x CTS – COMPRESSION ADAPTOR)	1
4	1" TYPE K "SOFT" COPPER TUBING	–
5	FULL PORT ANGLE CURB VALVE (CTS x FNPT OR FIP)	1
6	10" ROUND HEAVY DUTY PLASTIC VALVE BOX & LOCKING COVER WITH "WATER" OR "RECYCLED WATER" STAMPED ON LID	1
7	1"x4" LONG THREADED BRASS NIPPLE	1
8	1" BRASS UNION (FNPT x FNPT)	1
9	1" COPPER THREADED ADAPTER (MNPT x SWEAT OR CTS)	2
10	1" TYPE K "HARD" (RIGID) COPPER TUBING	–
11	1" COPPER 90° ELBOW (SWEAT OR CTS)	1
12	24" DIA. (OR SQUARE) 6" THICK CONCRETE PAD	1
13	1" AIR VAC & AIR RELEASE VALVE	1
14	PIPELINE PRODUCTS 14"x24" VALVE ENCLOSURE (ADVANTAGE SERIES VCAS–1424; POTABLE: RESIDENTIAL–GREEN, COMMERCIAL–YELLOW, RECYCLED–PURPLE)	1
15	1" GALV. STEEL STREET ELBOW(S) WITH SS SCREEN	2

REVISION NO.	DATE

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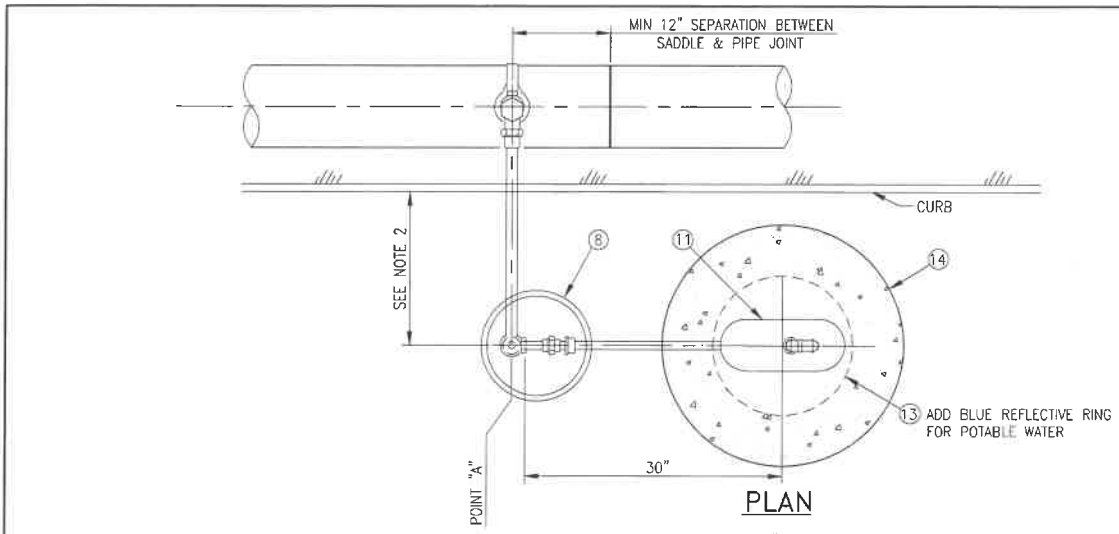
TPWD Terrebonne Parish Water District 760.367.7546

STANDARD DRAWING

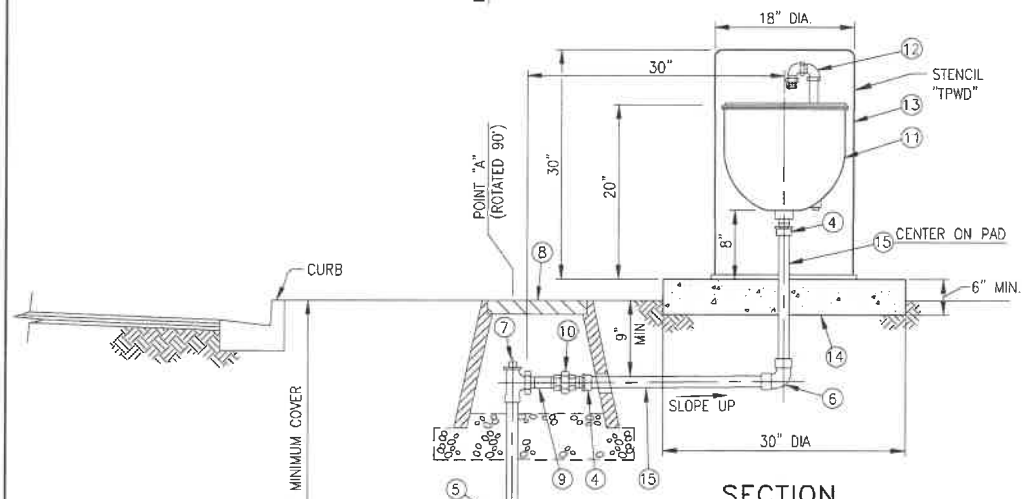
1" AIR VACUUM AND AIR RELEASE ASSEMBLY

SCALE: NTS

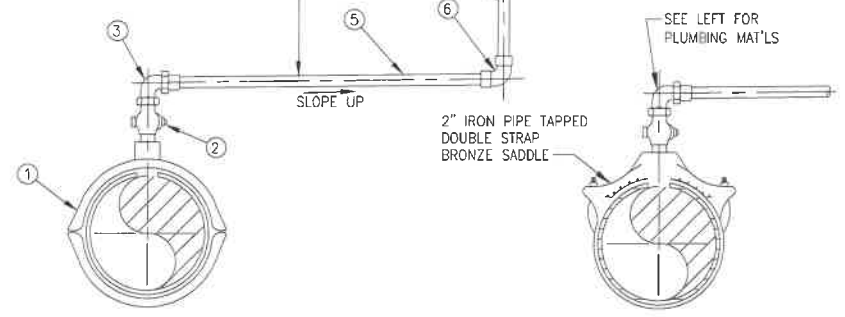
DWG. NO. SD–19



PLAN



SECTION



PVC PIPE D.I. OR A.C. PIPE

NOTES:

1. ALL BURIED BRASS/COPPER TUBING AND FITTINGS SHALL BE DOUBLE TAPE WRAPPED/COVERED WITH POLYPIPE TAPE GUARD: BLUE–POTABLE WATER; PURPLE–RECYCLED WATER.
2. REFER TO SD–13 OR SD–14 FOR PLACEMENT.
3. LANDSCAPING AROUND AIR VAC ASSEMBLY IS LIMITED TO GROUND COVER 6" OR LESS IN HEIGHT WITHIN 2' OF ASSEMBLY.

NO.	DESCRIPTION	QTY.
1	2"x 2" WIDE STRAP SERVICE SADDLE	1
2	2" BRASS CORP. STOP (MNPT)	1
3	2" BRASS 90° FITTING (FNPT X CTS COMPRESSION ADAPTER)	1
4	2" CORPER THREADED ADAPTER (MNPT x SWEAT OR CTS)	4
5	2" TYPE K SOFT COPPER TUBING	–
6	2" COPPER 90° ELBOW (SWEAT OR CTS)	2
7	FULL PORT ANGLE CURB VALVE (CTS X FNPT) – NO LONG HANDLE	1
8	10" ROUND HEAVY DUTY PLASTIC VALVE BOX & LOCKING COVER WITH "WATER" OR "RECYCLED WATER" STAMPED ON LID	1
9	2"x6" LONG THREADED BRASS NIPPLE	1
10	2" BRASS UNION (FNPT x FNPT)	1
11	2" AIR VAC & AIR RELEASE VALVE	1
12	2" GALV. STEEL STREET ELBOW(S) WITH SS SCREEN	2
13	PIPELINE PRODUCTS 18"x30" VALVE ENCLOSURE (ADVANTAGE SERIES VCAS–1830; POTABLE; YELLOW, RECYCLED; PURPLE)	1
14	30" DIA ROUND (OR SQUARE), 6" THICK CONCRETE PAD	1
15	2" TYPE K "HARD" (RIGID) COPPER TUBING	

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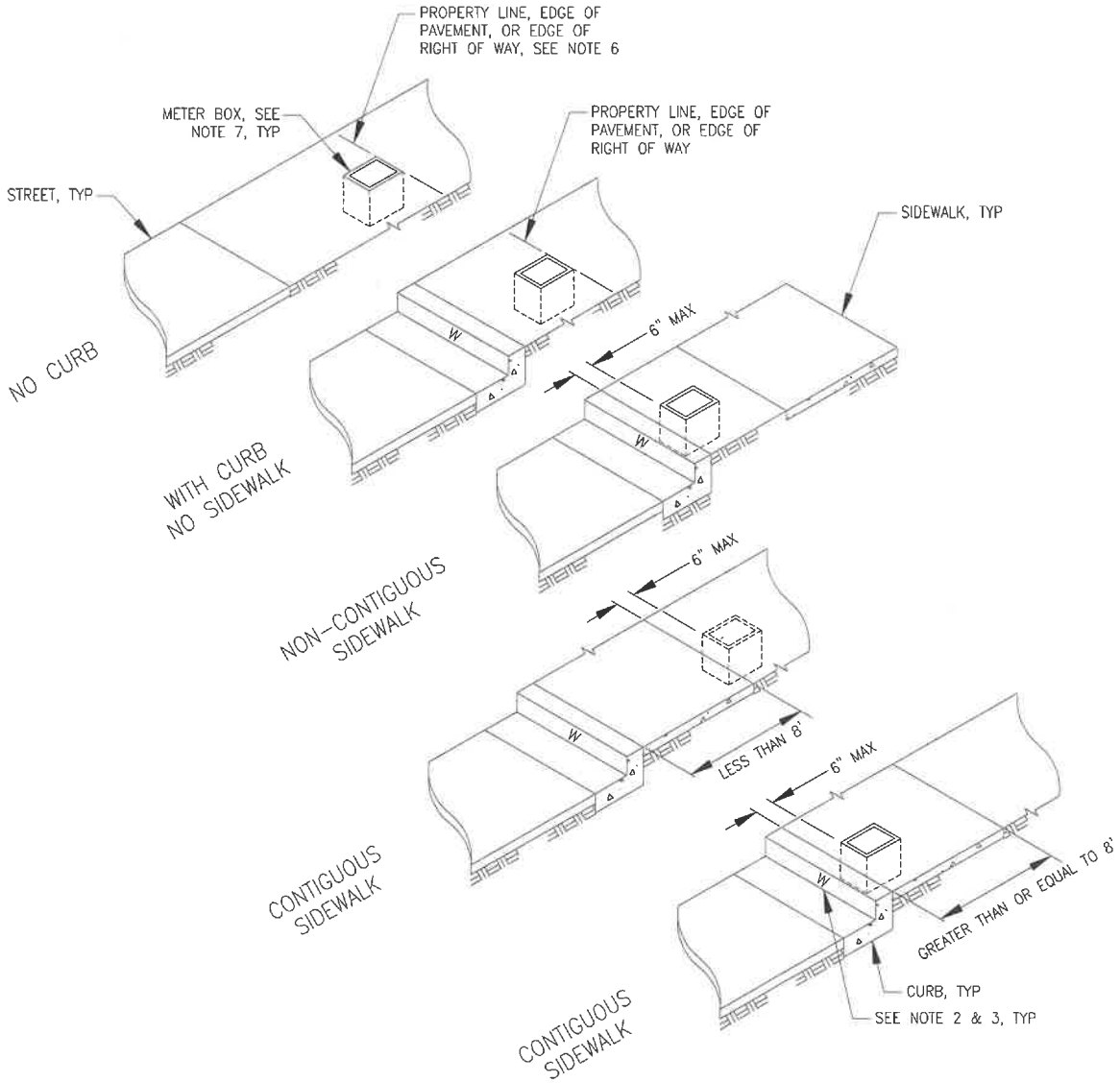
TPWD Terrebonne Parish Water District 760.367.7546

STANDARD DRAWING

2" AIR VACUUM AND AIR RELEASE ASSEMBLY

SCALE: NTS

DWG. NO. SD–20



NOTES:

1. REFER TO DISTRICT SPECIFICATIONS WHERE APPLICABLE.
2. STAMP OR CHISEL A 2" HIGH 'W' IN CURB FACE TO IDENTIFY POTABLE WATER SERVICE LOCATION.
3. STAMP OR CHISEL A 2" HIGH 'RW' IN CURB FACE TO IDENTIFY RECYCLED WATER SERVICE LOCATION.
4. METER BOXES ARE NOT TO BE INSTALLED IN DRIVEWAYS, SIDEWALKS OR WITHIN PAVED ROADWAYS.
5. MULTIPLE METER BOXES SHALL BE INSTALLED WITH A MINIMUM OF 9" BETWEEN BOXES.
6. WHEN NO CURBS OR GUTTERS ARE EXISTING OR TO BE INSTALLED UPON COMPLETION OF THE WATER SYSTEM, PLACE BACK EDGE OF METER BOX ON PROPERTY LINE.
7. AN EASEMENT MAY BE NEEDED DEPENDING ON LOCATION OF METER BOX.
8. METER BOXES INSTALLED FOR THE USE OF RECYCLED WATER SHALL BE IDENTIFIED AS DESCRIBED IN DISTRICT'S SPECIFICATIONS.
9. MATERIALS SHALL BE SELECTED FROM THE DISTRICT'S APPROVED MATERIALS LIST.

REVISION NO	DATE

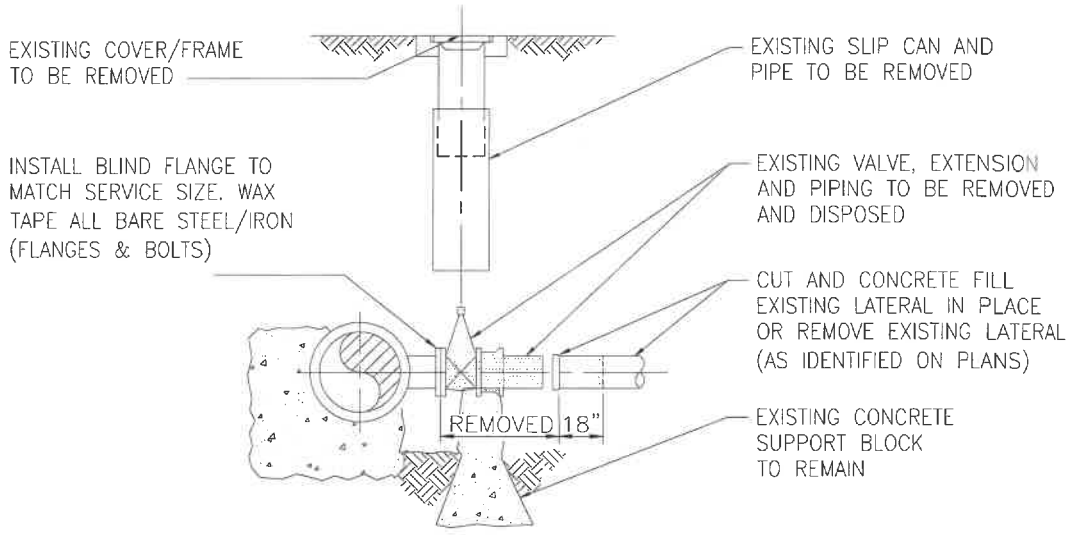
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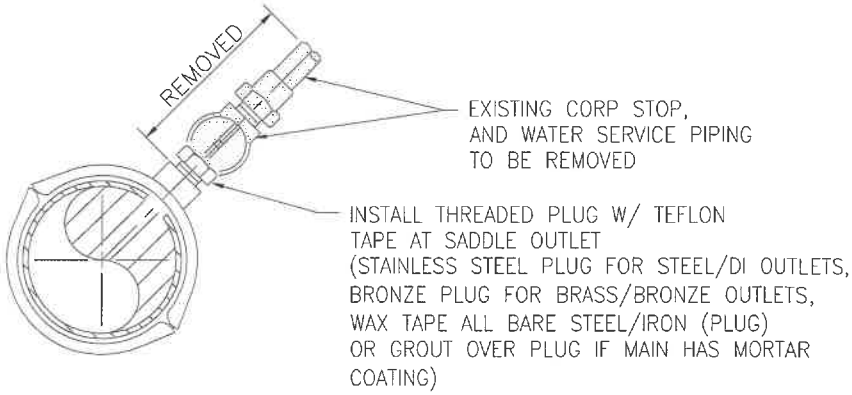
TPWD Twentynine Palms Water District 760.367.7546

STANDARD DRAWING
WATER METER BOX LOCATIONS

SCALE: NTS
DWG. NO.
SD-21



FLANGED OUTLET
(4" AND LARGER CONNECTION)



SADDLE/THREADED OUTLET
(3/4" THRU 2" CONNECTION)

NOTES:
THE FOLLOWING SHALL BE THE STEPS TAKEN TO ABANDON EXISTING WATER APPURTENANCES.

1. PRIOR APPROVAL FROM TPWD SHALL BE OBTAINED IN THE FORM OF APPROVED PLANS, INSPECTION PACKAGE, AND SERVICE ABANDONMENT AGREEMENT BETWEEN TPWD AND PROPERTY OWNER.
2. CONTRACTOR SHALL:
   A. COORDINATE WITH TPWD TO REMOVE EXISTING METERS ON WATER SERVICES AND FIRE DETECTOR ASSEMBLIES.
   B. COORDINATE WITH TPWD TO SHUT-DOWN/ISOLATE MAIN FROM SERVICE.
   C. EXCAVATE DOWN TO GAIN ACCESS TO CONNECTION POINT AT MAIN AND LATERAL FOR REMOVAL.
   D. CUT AND CRIMP EXISTING COPPER SERVICES 12" TO 18" AWAY FROM THE SERVICE CONNECTION AND LEAVE IN PLACE. MAINS LARGER THAN 2" SHALL BE CUT 18" TO 28" FROM SERVICE CONNECTION AND HAVE REMAINING 18" OF THE PIPE PLUGGED WITH CONCRETE AND ABANDONED IN PLACE UNLESS PLANS SPECIFY THE REMOVAL OF THE REMAINING PIPE.
   E. EXCAVATE DOWN TO AND REMOVE THE RISER TO THE WATER METER OR FIRE SERVICE. CUT AND CRIMP, OR PLUG WITH CONCRETE (18 INCH MINIMUM), THE REMAINING SERVICE LINES.
   F. BACKFILL AND COMPACT THE EXCAVATIONS IN ACCORDANCE WITH TPWD STANDARDS AND/OR ENCROACHMENT PERMIT.
   G. REPAIR ANY DAMAGED PAVEMENT MATERIALS IN ACCORDANCE WITH ENCROACHMENT PERMIT REQUIREMENTS.
   H. CONTACT TPWD TO RECHARGE THE WATER MAIN AFTER SERVICE HAS BEEN ABANDONED.

REVISION NO.	REVISION DATE

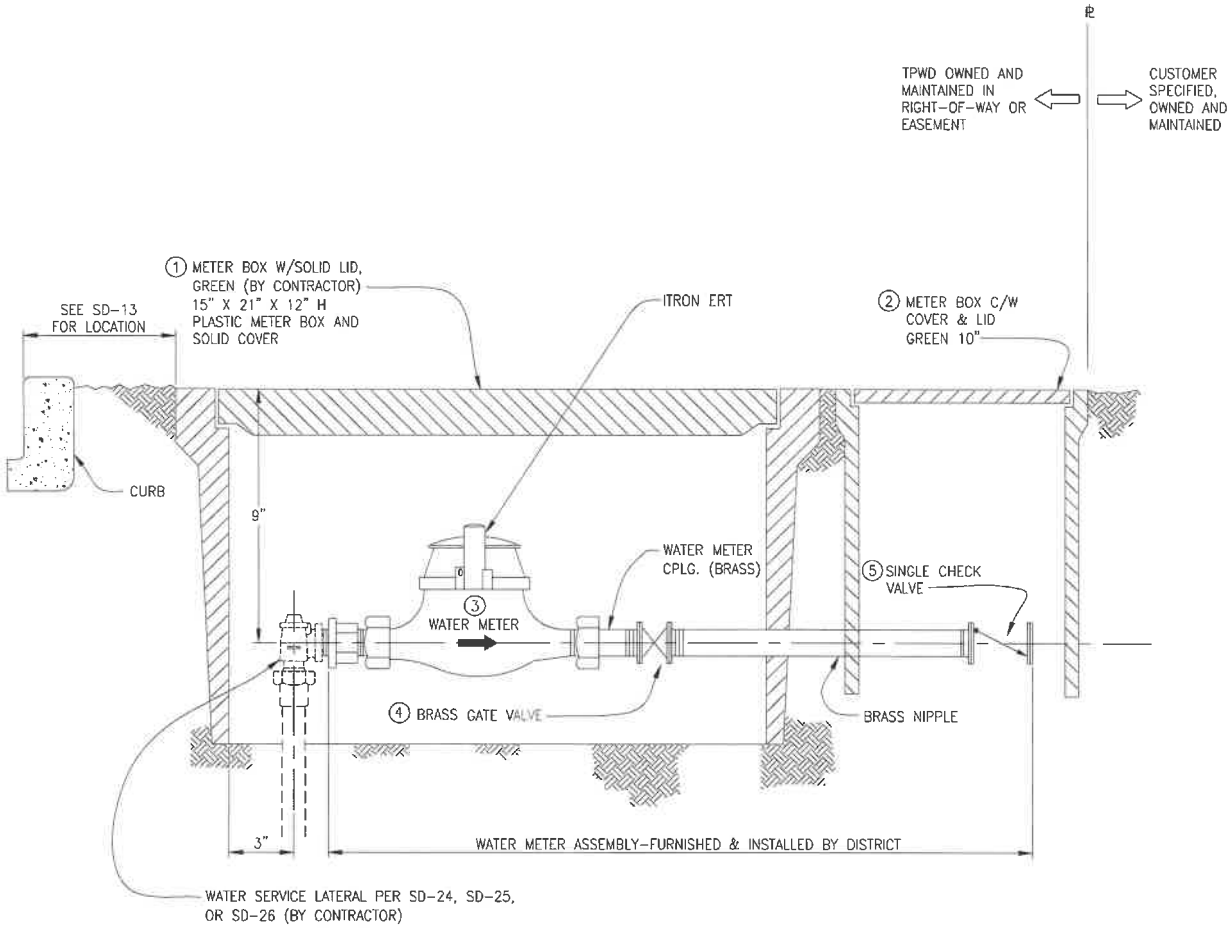
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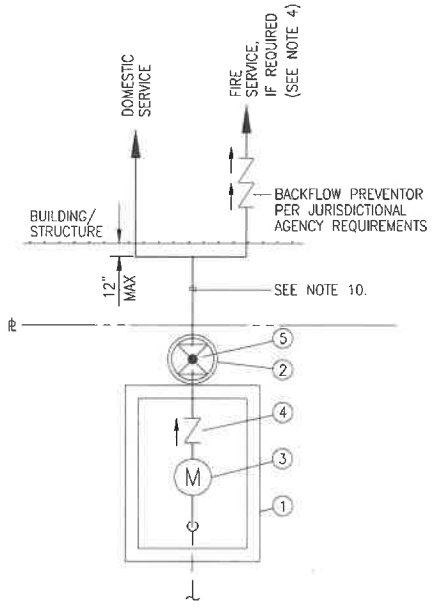
TPWD Terrytown Public Water District 750.367.7546

STANDARD DRAWING
EXISTING WATER
SERVICE ABANDONMENT

SCALE: NTS
DWG. NO.
SD-22



SECTION VIEW



SCHEMATIC PLAN VIEW

NOTES

1. STAMP CURB WITH "W" FOR LATERAL LOCATION
2. METER BOX LOCATION IS 7 1/2' FROM FACE OF CURB OR AS DIRECTED BY TPWD. (REF SD-13 OR SD-14)
3. ALL METER BOXES WILL BE STAKED FOR LOCATION AND ELEVATION.
4. NO DIPS OR POCKETS IN LATERAL WILL BE ALLOWED.
*5. METER BOX WILL BE AN 15" X 21" X 12"H PLASTIC #4 METER BOX & SOLID COVER.
6. WHEN NO CURBS ARE EXISTING OR TO BE INSTALLED, PLACE BACK EDGE OF METER BOX 3'-0" FROM PROPERTY LINE.
7. LANDSCAPING AROUND METER BOX IS LIMITED TO GROUND COVER 6" OR LESS IN HEIGHT WITHIN 2' OF METER BOX.
8. METER BOXES SHALL BE PLACED IN LAWN OR PLANTER AREAS ONLY. METERS SHALL NOT BE PLACED IN SIDEWALKS, DRIVEWAYS, HANDICAPPED RAMPS, ETC.
9. APPLICABLE ONE AND TWO FAMILY RESIDENTIAL UNITS ONLY.
10. SINGLE SERVICE LINE TO TO BUILDING/STRUCTURE, TEE FOR RESIDENTIAL FIRE SPRINKLERS MUST BE WITHIN 12-INCHES OF BUILDING/STRUCTURE.

* IF SERVICE REQUIRES PRESSURE REGULATING CONTACT TPWD FOR REQUIREMENTS.

REVISION NO.	DATE

APPROVED: _____ (DATE)

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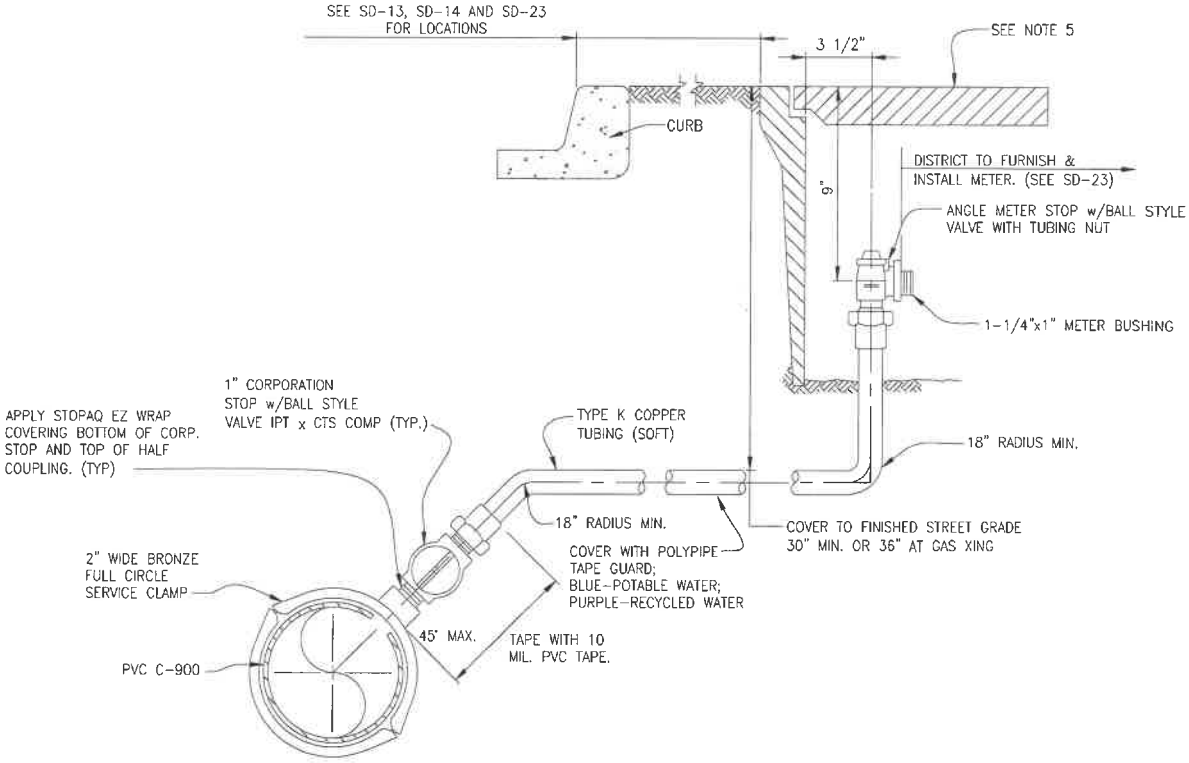
TPWD Terrell County Water District 760.367.7546

STANDARD DRAWING

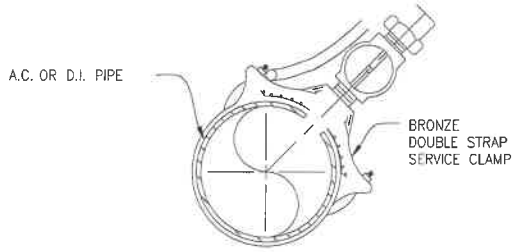
TYPICAL DROP-IN METER INSTALLATION (5/8", 3/4", 1", 1-1/2" OR 2")

SCALE: NTS

DWG. NO. SD-23



TYPE "A"
PVC PIPE C-900



TYPE "B"
A.C. OR D.I. PIPE

NOTES:

1. STAMP CURB WITH "W" FOR LATERAL LOCATION.
2. METER BOX LOCATION PER SD-13 & SD-14.
3. ALL METER BOXES SHALL BE STAKED FOR LOCATION AND ELEVATION.
4. NO DIPS OR POCKETS IN LATERAL WILL BE ALLOWED.
5. SEE SD-13 FOR METER BOX AND COMPONENTS.
6. ALL BARE IRON & STEEL SHALL BE COATED WITH CEMENT MORTAR.
7. SERVICE SADDLE TO HAVE A MIN. 12" SEPARATION FROM ANY PIPE JOINTS UNLESS OTHERWISE APPROVED BY TPWD.
8. METER BOXES SHALL BE PLACED IN LAWN OR PLANTER AREAS ONLY. METER BOXES SHALL NOT BE PLACED IN SIDEWALKS, DRIVEWAYS, HANDICAPPED RAMPS, ETC.
9. MINIMUM 5'-0" SEPARATION BETWEEN WATER AND SEWER LATERALS AND BETWEEN WATER.

REVISION NO.	DATE

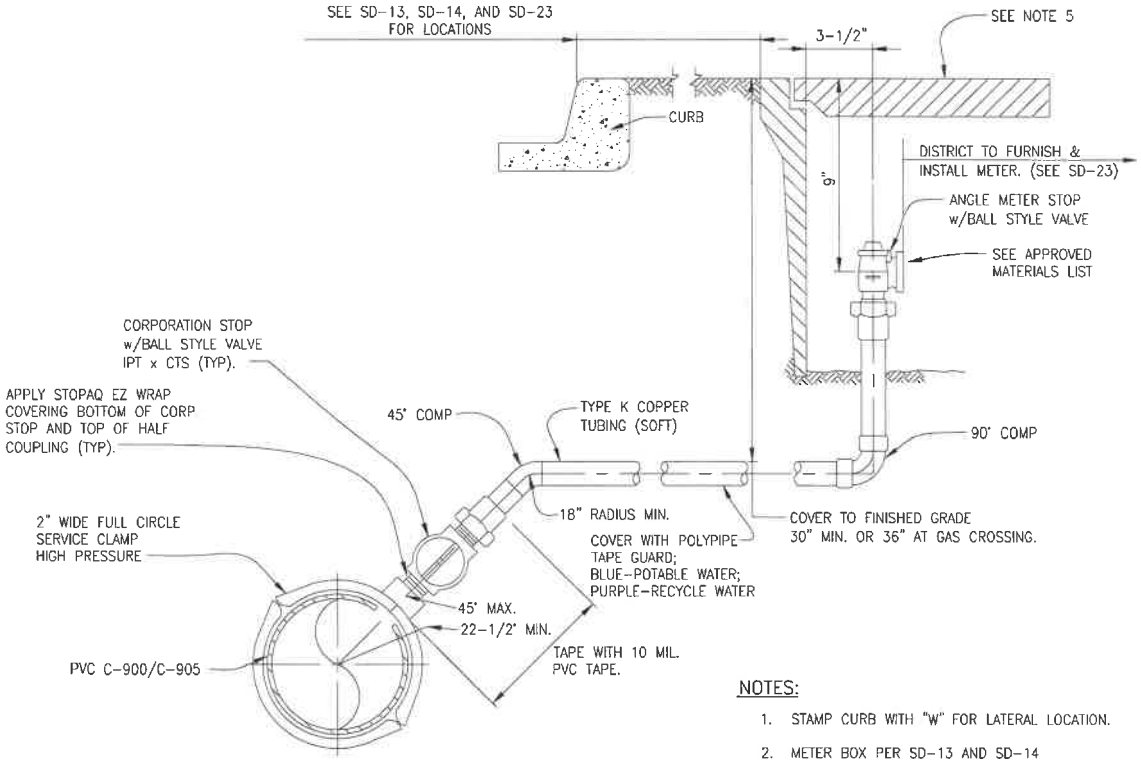
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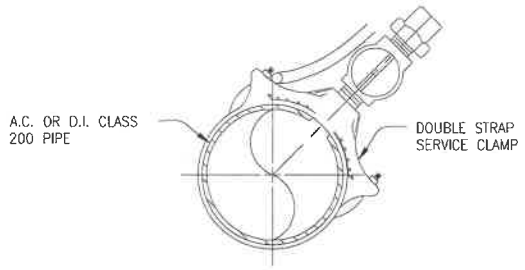
TPWD Terrytorine Plains Water District 760.367.7546

STANDARD DRAWING
3/4" AND 1" WATER SERVICE LATERAL (COPPER)

SCALE: NTS
DWG. NO.
SD-24



TYPE "A"
PVC PIPE C-900



TYPE "B"
A.C. OR D.I. PIPE

NOTES:

1. STAMP CURB WITH "W" FOR LATERAL LOCATION.
2. METER BOX PER SD-13 AND SD-14
3. ALL METER BOXES SHALL BE STAKED FOR LOCATION AND ELEVATION.
4. NO DIPS OR POCKETS IN LATERAL WILL BE ALLOWED.
5. SEE SD-13 FOR METER BOX AND COMPONENTS.
6. ALL BARE IRON & STEEL SHALL BE COATED WITH CEMENT MORTAR.
7. SERVICE SADDLE TO HAVE A MIN. 12" SEPARATION FROM ANY PIPE JOINTS UNLESS OTHERWISE APPROVED BY RCWD.
8. METER BOXES SHALL BE PLACED IN LAWN OR PLANTER AREAS. METER BOXES SHALL NOT BE PLACED IN SIDEWALKS, DRIVEWAYS, HANDICAPPED RAMPS.
9. MINIMUM 5'-0" SEPARATION BETWEEN WATER AND SEWER LATERALS AND BETWEEN WATER AND RECYCLED WATER LATERALS.

REVISION NO.	DATE

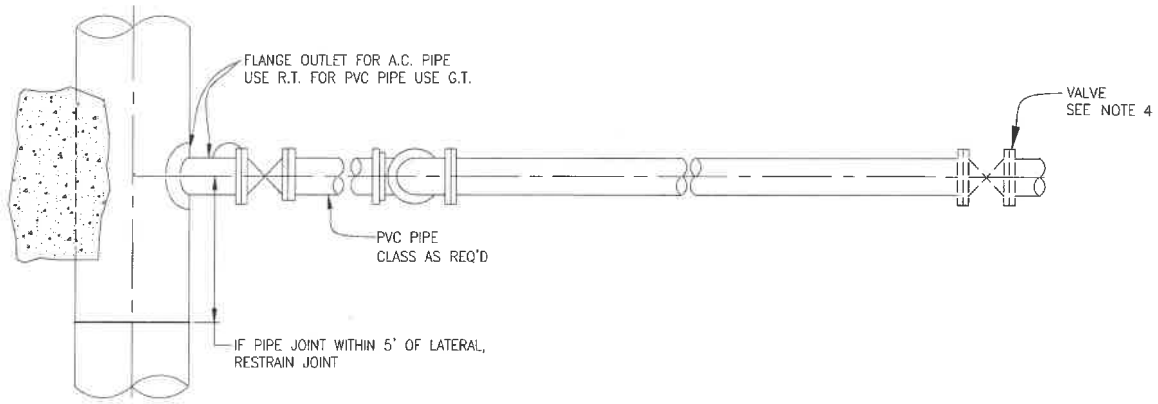
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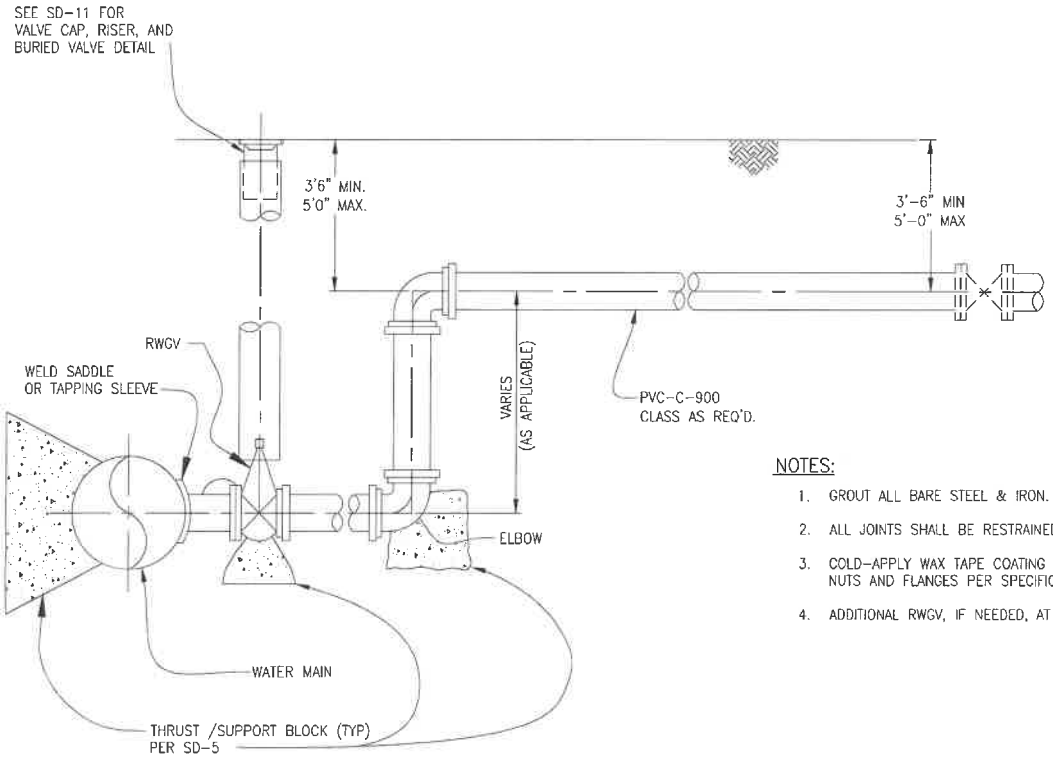
TPWD Twentynine Palms Water District 760.367.7646

STANDARD DRAWING
1 1/2" & 2" WATER SERVICE LATERAL (COPPER)

SCALE: NTS
DWG. NO.
SD-25



PLAN



PROFILE

NOTES:

1. GROUT ALL BARE STEEL & IRON.
2. ALL JOINTS SHALL BE RESTRAINED.
3. COLD-APPLY WAX TAPE COATING TO ALL BOLTS, NUTS AND FLANGES PER SPECIFICATIONS.
4. ADDITIONAL RWGV, IF NEEDED, AT TPWD DISCRETION.

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GENERAL MANAGER

TPWD Texoma Palms Water District 903.367.7546

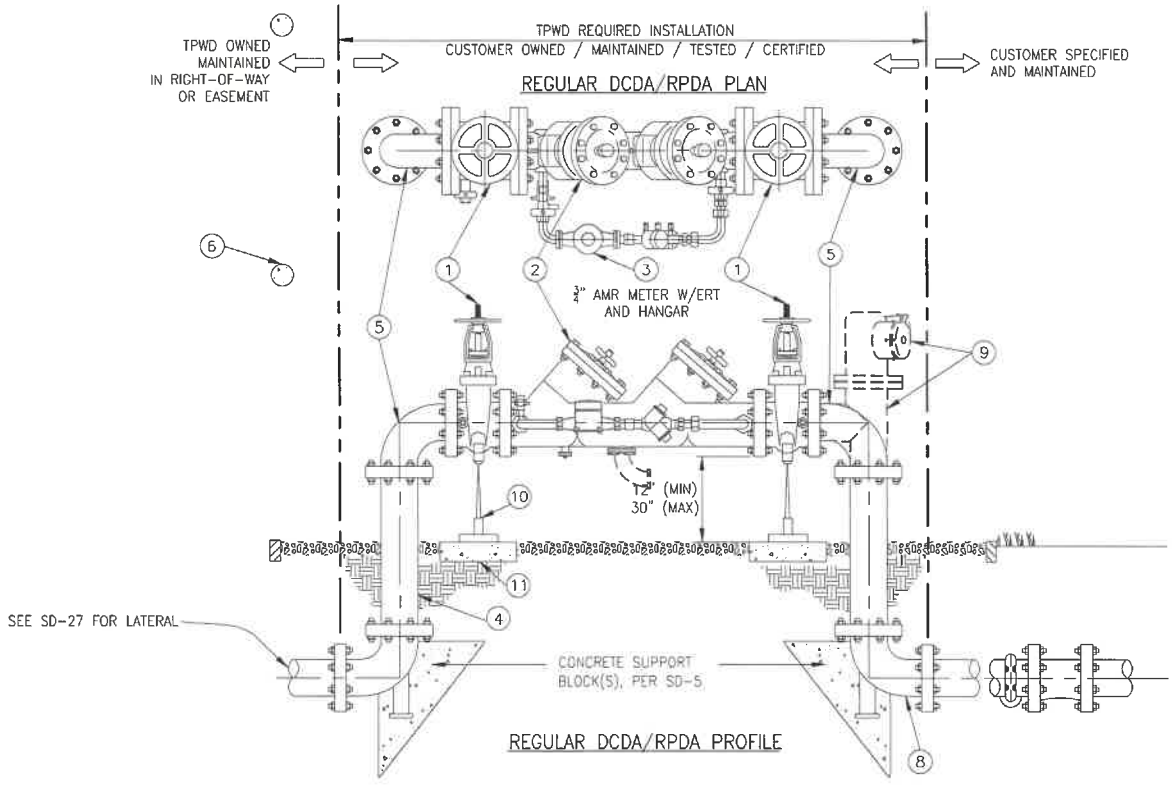
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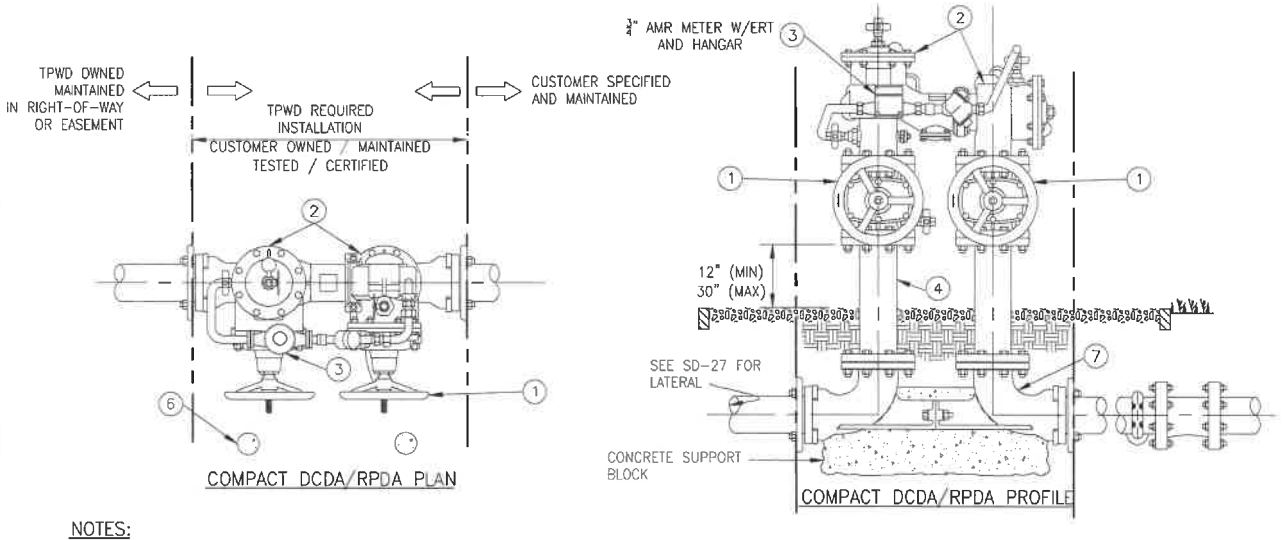
PVC SERVICE LATERAL
(4", 6", 8", AND 12")

SCALE: NTS

DWG. NO.

SD-26





NOTES:

1. D.I. PIPE TO BE USED ON ALL VERTICAL RISERS AND 90° ELBOWS.
2. IF LANDSCAPING IS PROPOSED, IT SHALL BE PLACED A MINIMUM OF 3' FROM THE DCDA/RPDA ASSEMBLY.
3. EASEMENT REQUIRED IF DCDA/RPDA ASSEMBLY ENCROACHES ONTO PRIVATE PROPERTY.
4. RESTRAIN ALL JOINTS ABOVE GROUND.
5. APPROPRIATE TEST COCKS SHALL BE IN PLACE AT ALL TIMES.
6. TPWD SHALL HAVE UNOBSTRUCTED ACCESS TO DCDA/RPDA DEVICE.
7. REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) MAY BE REQUIRED IF SITE IS IRRIGATED WITH RECYCLED WATER AND AT THE TPWD'S DISCRETION.

NO.	DESCRIPTION	QTY.
1	O.S. & Y. VALVES WITH LOCK AND CHAIN	2
2	USC/FM/UL APPROVED DOUBLE CHECK/REDUCED PRESSURE DETECTOR ASSEMBLY (DEVICE)	1
3	BY-PASS METER - PROVIDED AND INSTALLED BY TPWD	1
4	DUCTILE IRON - AS REQ'D	AS REQ.
5	DUCTILE IRON 90° ELBOW, SEE NOTE 8	2
6	GUARD POSTS PER SD-14	2
7	DEVICE SETTING ELBOWS (SUPPLIED BY DEVICE MANUFACTURER)	2
8	90° BASE BENDS	2
9	DUCTILE IRON TEE & FIRE DEPARTMENT CONNECTION (OPTIONAL - AS APPROVED BY FIRE DEPARTMENT)	1
10	VALVE SUPPORTS, SEE DETAIL ON SD-29	2
11	CONCRETE PAD, 12"x12"x6"	2

* ABOVE GROUND DCDA ASSEMBLY REQUIRED. BELOW GROUND DCDA INSTALLATION REQUIRES SPECIAL APPROVAL BY TPWD.

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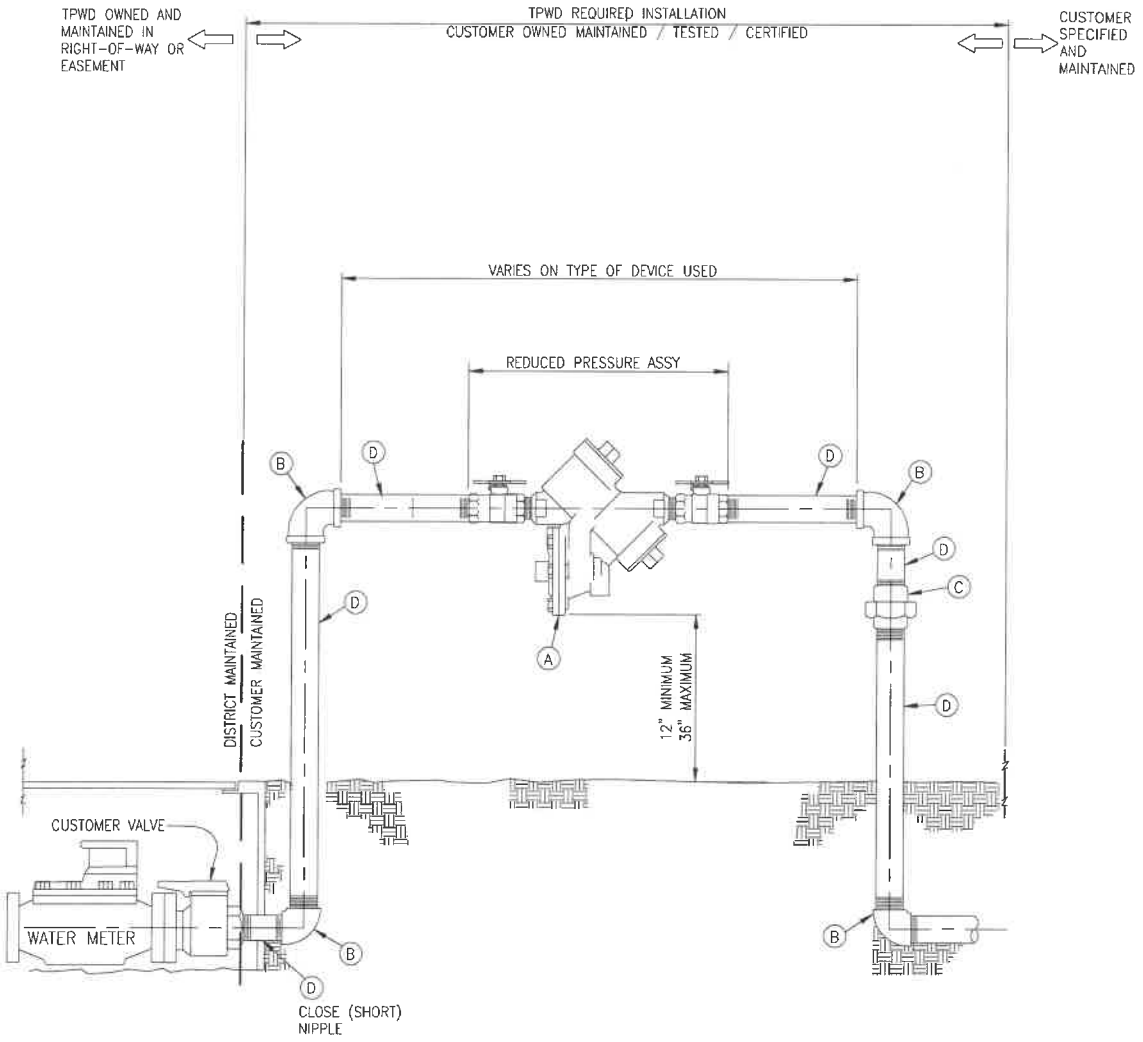
TPWD Terrytone Palms Water District 760.367.7546

STANDARD DRAWING

FIRE SERVICE & BACKFLOW PREVENTION ASSEMBLY (DCDA OR RPDA)

SCALE: NTS

DWG. NO. SD-27



NOTES:

1. ALL INSTALLATIONS SHALL BE ABOVE GROUND.
2. ALL BACKFLOW PREVENTION DEVICES SHALL BE IMMEDIATELY ADJACENT TO THE WATER METER UNLESS APPROVED BY TPWD PRIOR TO INSTALLATION.
3. THE BACKFLOW PREVENTION DEVICE SHALL BE SELECTED FROM THE APPROVED USC LIST ON FILE WITH TPWD.
4. NO CONNECTIONS SHALL BE MADE BETWEEN THE WATER METER AND THE BACKFLOW DEVICE.
5. TYPE OF BACKFLOW PREVENTION DEVICE SHALL BE BASED ON THE DEGREE OF HAZARD. AS DETERMINED BY TPWD.
6. APPROPRIATE TEST COCKS SHALL BE IN PLACE AT ALL TIMES.
7. TPWD SHALL HAVE ACCESS TO BACKFLOW PREVENTION DEVICE FOR THE INITIAL CERTIFICATION TEST.
8. REFER TO APPLICABLE STANDARD DRAWINGS FOR INSTALLATION OF WATER METER & SERVICE.
9. NIPPLES SHALL BE BRASS, COPPER, OR GALVANIZED STEEL. (NO PVC)

MATERIALS

- (A) BACKFLOW PREVENTION DEVICE (U.S.C. APPROVED)
- (B) 90° ELBOW
- (C) UNION (THREADED UNION RECOMMENDED FOR REMOVAL AND REPAIR OF DEVICE)
- (D) PIPE/NIPPLE VARIES IN LENGTH (SEE NOTE NO. 9)

REVISION NO.	DATE

APPROVED: _____ (DATE)

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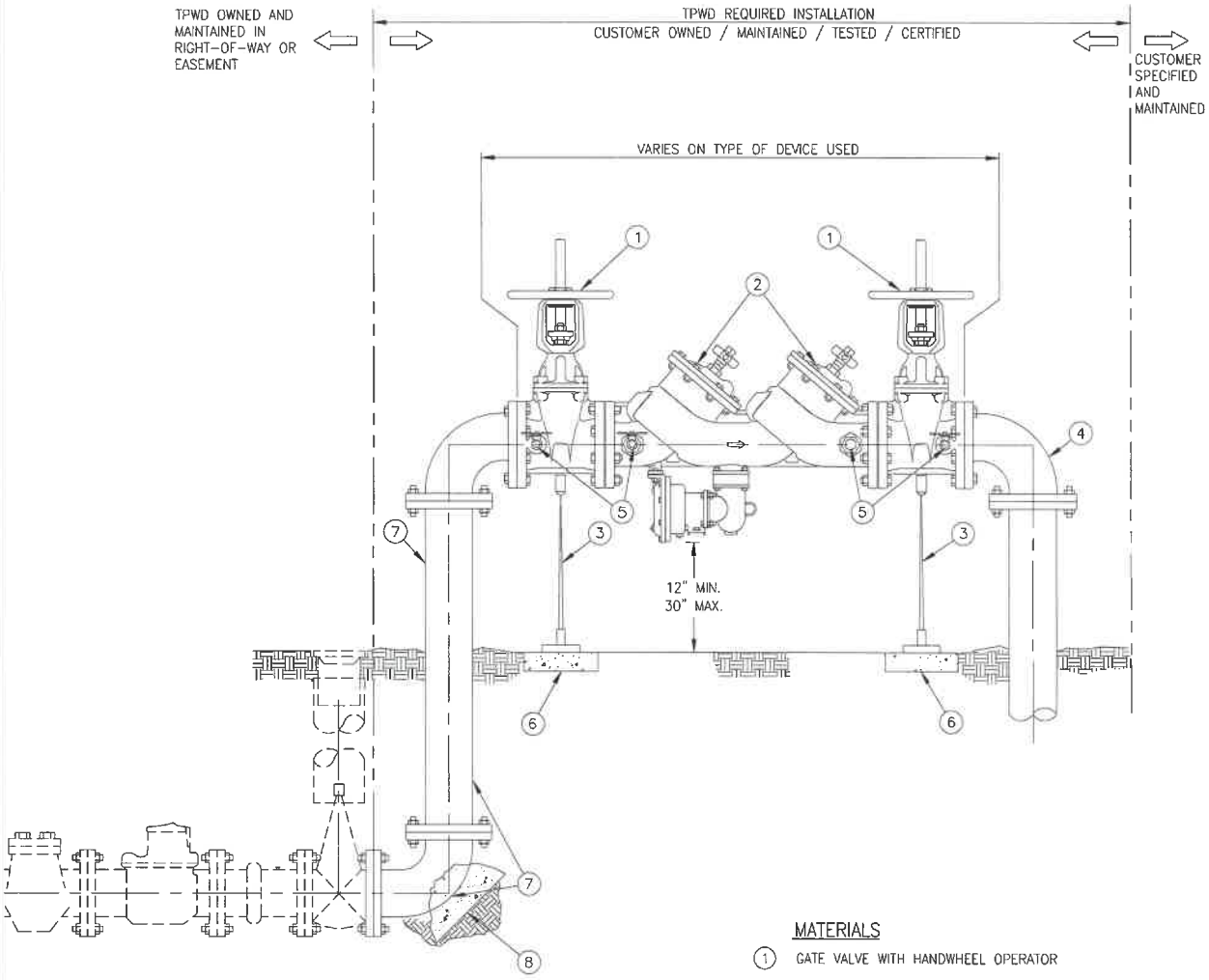
TPWD Terrytorice Palms Water District 760.367.7548

STANDARD DRAWING

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (2" & SMALLER)

SCALE: NTS

DWG. NO. SD-28



NOTES

A. ALL INSTALLATIONS SHALL BE ABOVE GROUND.

B. ALL BACKFLOW PREVENTION DEVICES SHALL BE IMMEDIATELY ADJACENT TO THE WATER METER.

C. THE BACKFLOW PREVENTION DEVICE SHALL BE SELECTED FROM THE U.S.C. APPROVED LIST ON FILE WITH TPWD.

D. NO CONNECTIONS SHALL BE MADE BETWEEN THE WATER METER AND THE BACKFLOW PREVENTION DEVICE.

E. TYPE OF BACKFLOW PREVENTION DEVICE SHALL BE BASED ON THE DEGREE OF HAZARD. AS DETERMINED BY TPWD.

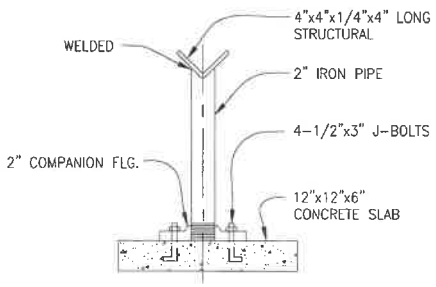
F. APPROPRIATE TEST COCKS SHALL BE IN PLACE AT ALL TIMES.

G. TPWD SHALL HAVE UNOBSTRUCTRUCTED ACCESS TO BACKFLOW PREVENTION DEVICE.

H. REFER TO APPLICABLE TPWD STANDARD DRAWINGS FOR INSTALLATION OF WATER METER & SERVICE.

MATERIALS

1. GATE VALVE WITH HANDWHEEL OPERATOR
2. BACKFLOW PREVENTION DEVICE (U.S.C. APPROVED)
3. VALVE SUPPORTS, SEE DETAIL HEREON
4. 90° DUCTILE IRON ELBOW
5. TEST COCK (4 REQUIRED)
6. CONCRETE PAD, 12"x12"x6"
7. PIPING BETWEEN METER AND BACKFLOW DEVICE SHALL BE DUCTILE IRON OR STEEL (NO PVC).
8. CONCRETE THRUST/SUPPORT BLOCK PER SD-5



VALVE SUPPORT DETAIL

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

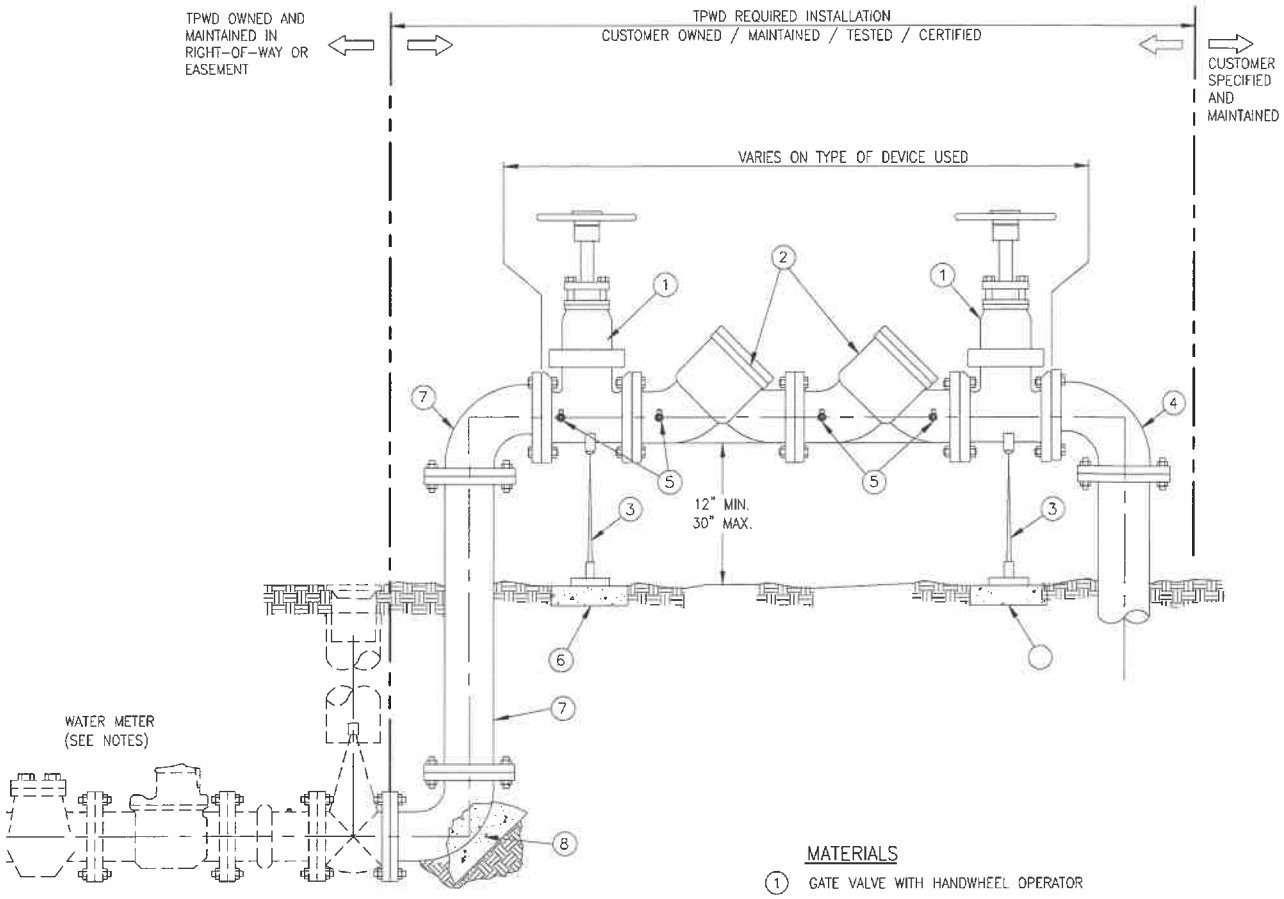
TPWD Terrebonne Parish Water District 760.367.7546

STANDARD DRAWING

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY 3" & LARGER

SCALE: NTS

DWG. NO. SD-29



NOTES

A. ALL INSTALLATIONS SHALL BE ABOVE GROUND.

B. ALL DOUBLE CHECK BACKFLOW PREVENTION DEVICES SHALL BE IMMEDIATELY ADJACENT TO THE WATER METER.

C. THE BACKFLOW PREVENTION DEVICE SHALL BE SELECTED FROM THE U.S.C. APPROVED LIST ON FILE WITH TPWD.

D. NO CONNECTIONS SHALL BE MADE OR EQUIPMENT INSTALLED BETWEEN THE WATER METER AND THE BACKFLOW PREVENTION DEVICE.

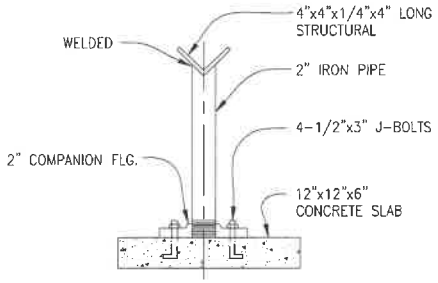
E. APPROPRIATE TEST COCKS SHALL BE IN PLACE AT ALL TIMES.

F. TPWD SHALL HAVE UNOBSTRUCTED ACCESS TO BACKFLOW PREVENTION DEVICE.

G. REFER TO APPLICABLE TPWD STANDARD DRAWINGS FOR INSTALLATION OF WATER METER & SERVICE.

MATERIALS

1. GATE VALVE WITH HANDWHEEL OPERATOR
2. DOUBLE CHECK BACKFLOW PREVENTION DEVICE (U.S.C. APPROVED)
3. VALVE SUPPORT, SEE DETAIL HEREON
4. 90° DUCTILE IRON ELBOW
5. TEST COCK (4 REQUIRED)
6. CONCRETE PAD, 12"x12"x6"
7. PIPING BETWEEN METER AND BACKFLOW DEVICE SHALL BE DUCTILE IRON (NO PVC)
8. CONCRETE THRUST/SUPPORT BLOCK PER SD-5



VALVE SUPPORT DETAIL

REVISION NO.	DATE

APPROVED: _____ (DATE)

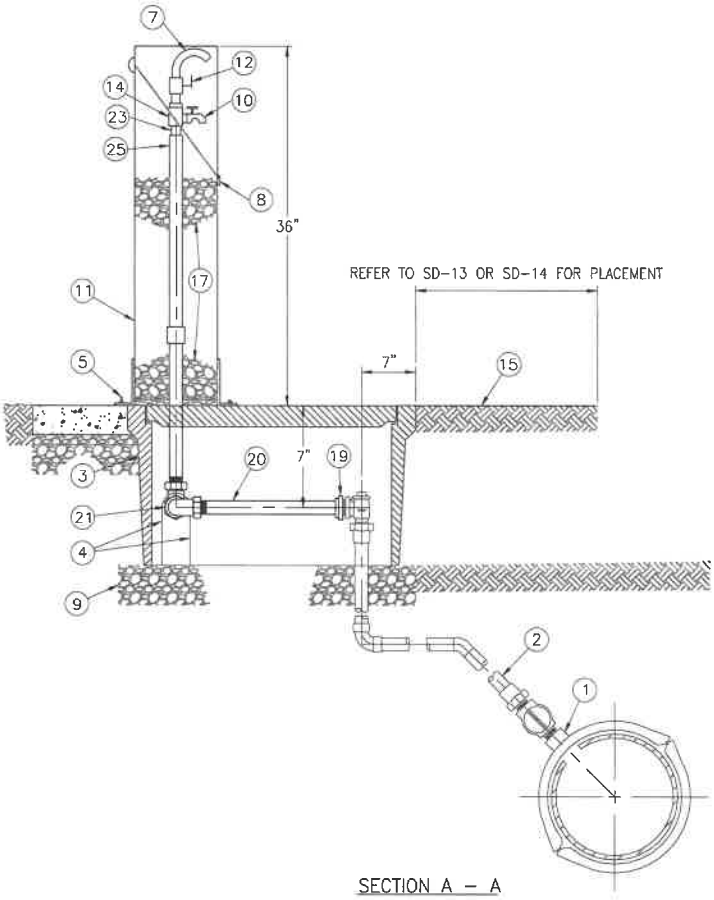
MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Texarkana Region Water District 903.957.7548

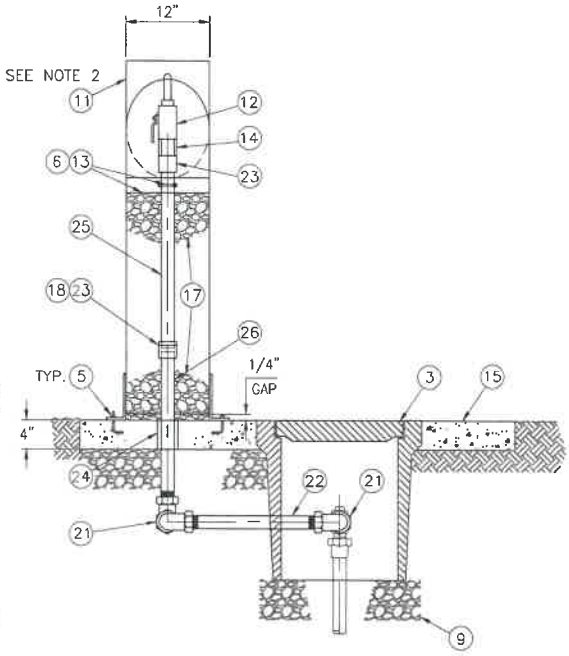
STANDARD DRAWING
DOUBLE CHECK BACKFLOW PREVENTION DEVICE (3" & LARGER)

SCALE: NTS

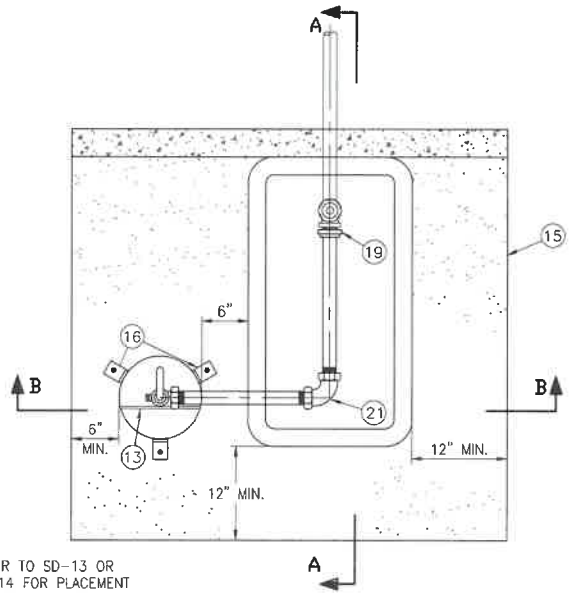
DWG. NO. SD-30



SECTION A – A



SECTION B – B



PLAN

NO.	DESCRIPTION	QTY..
1	1" SERVICE CONNECTION PER SD-24	1
2	1" TYPE "K" COPPER TUBING PER SD-24	1
3	CONCRETE METER BOX WITH READING LID (15" x 21" x 12")	1
4	SAWCUT OR CORE DRILL FOR 1" PIPE	1
5	⅜" DIA X 4" LONG STAINLESS STEEL J ANCHOR BOLT CAST IN SLAB (3 EACH AT 120° APART WITH STAINLESS STEEL NUTS AND WASHERS) INSTALL WITH RUBBER GROMMET UNDER ANCHOR CLIPS TO PROVIDE ¼" GAP.	3
6	INTERNAL MOUNT AND STAINLESS STEEL U-BOLT.	1
7	⅜" TYPE "K" SOFT COPPER SPIGOT BEND TO 120° FOR DOWNWARD OPENING.	1
8	LOCKING HASP ASSEMBLY FOR 5H08 PADLOCK	1
9	¾" CRUSHED ROCK PLACE TO DEPTH 6" BELOW CONCRETE METER BOX	–
10	STD. HOSE BIBB	1
11	STD. STEEL PIPE 12" DIAMETER x 36" HIGH. W/ HINGED COVER SEE NOTE 3.	1
12	3/8" STAINLESS STEEL TEFLON SEATED BALL VALVE, F.I.P.T. x F.I.T.P. (ORIENT VALVE HANDLE TOWARD FRONT OF SAMPLE STATION).	1
13	1 3/4" WIDE x 3/16" THICK STEEL FLAT BAR, WELDED TO INTERIOR OF SAMPLE STATION.	1
14	1" BRASS TEE (M.I.D.T.) W/ 1" x 3/8" BRASS REDUCING BUSHING (TOP).	1 1
15	4" THICK CLASS "B" CONCRETE.	3
16	ANCHOR CLIPS WITH ½" HOLES AT 120° SPACING WELD TO WATER SAMPLE STATION COVER.	–
17	½" PEA GRAVEL.	1
18	1" PVC SCH. 80 COUPLING, F.I.P.T. x F.I.T.P.	1
19	1" METER NUT BY F.I.P.T. ADAPTER.	1
20	1" RED BRASS NIPPLE, T.B.E. 6" LONG.	2
21	1" BRASS 90° BEND F.I.P.T. x F.I.P.T.	1
22	1" RED BRASS NIPPLE, T.B.E. 18" LONG.	2
23	1" WROT COPPER SLIP BY M.I.P.T. ADAPTER.	1
24	2" SCH. 80 PVC SLEEVE.	–
25	1" TYPE "K" RIGID COPPER PIPE.	1
26	1" RED BRASS NIPPLE, T.B.E. 10" LONG.	

NOTES

1. ALL STAINLESS STEEL HARDWARE SHALL BE TYPE 316 ALLOY.
2. REFER TO SD-13 OR SD-14 FOR PLACEMENT AND PAINTING.
3. STENCIL "TPWD DOMESTIC" OR "RECLAIMED" AS DIRECTED BY TPWD.

REVISION	
NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Terrytorie Palms Water District 760.367.7546

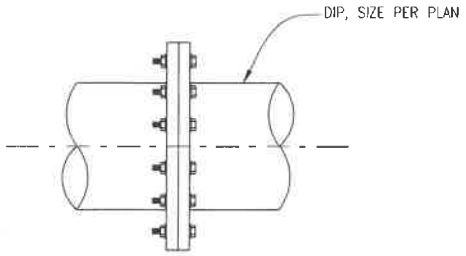
STANDARD DRAWING

WATER QUALITY
SAMPLE STATION

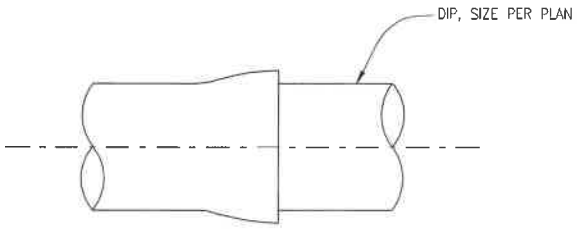
SCALE: NTS

DWG. NO.

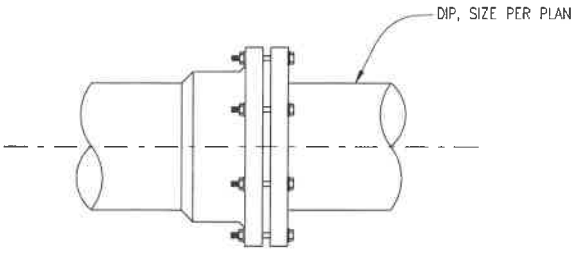
SD-31



FLANGED CONNECTION



PUSH–ON CONNECTION



MECHANICAL JOINT CONNECTION

REVISION NO.	DATE

APPROVED: (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

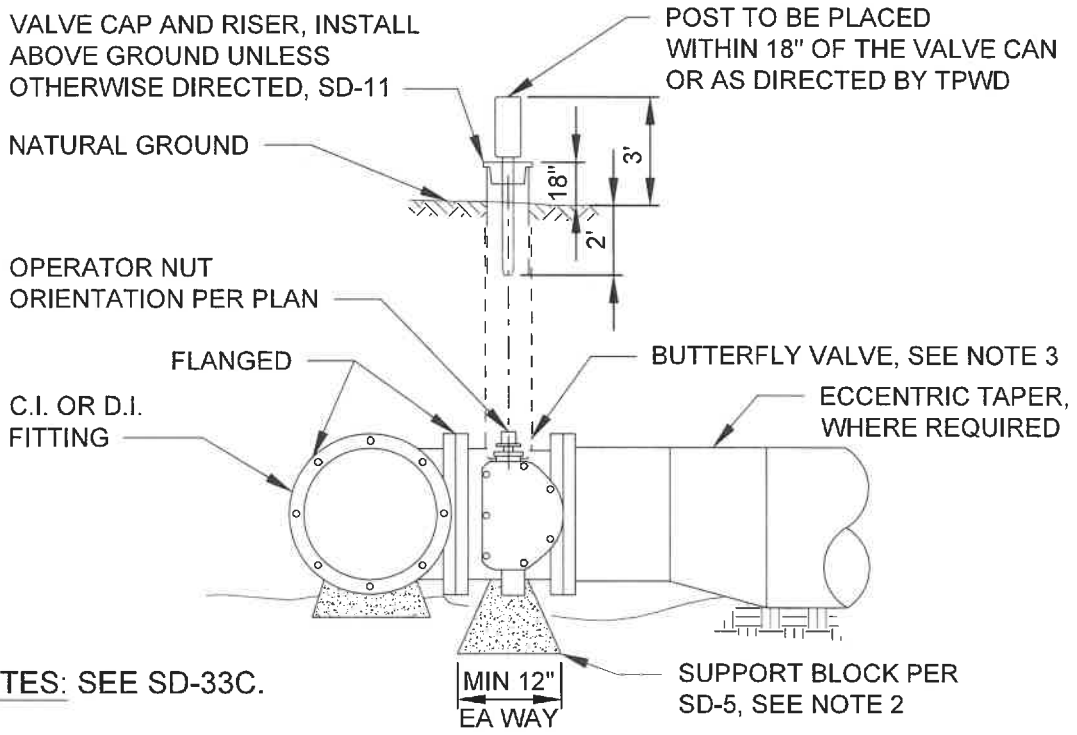
TPWD Terrytowne Plains Water District 760.367.7544

STANDARD DRAWING
DUCTILE IRON
PIPELINE DETAILS

SCALE: NTS

DWG. NO.

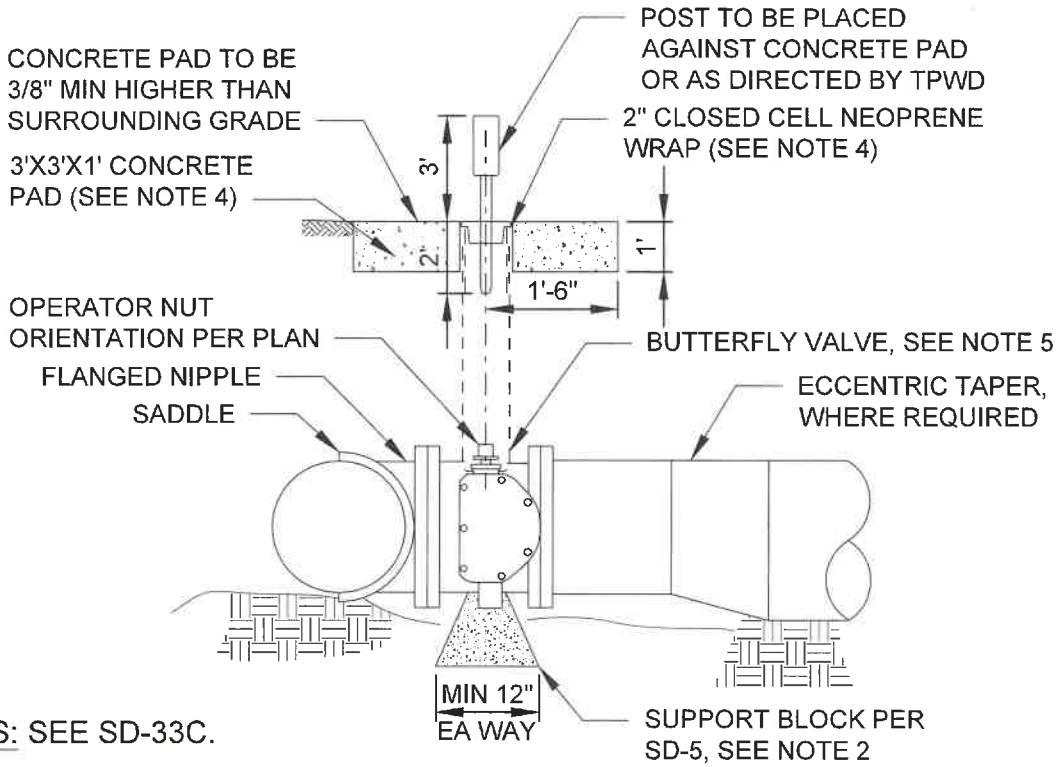
SD–32



NOTES: SEE SD-33C.

C.I. AND D.I. FITTING

SHOWING OPEN FIELD



NOTES: SEE SD-33C.

STEEL PIPE SADDLE OUTLET (NOTE FOR HOT TAP USE)

SHOWING UNIMPROVED ROADWAY

REVISION NO.	DATE

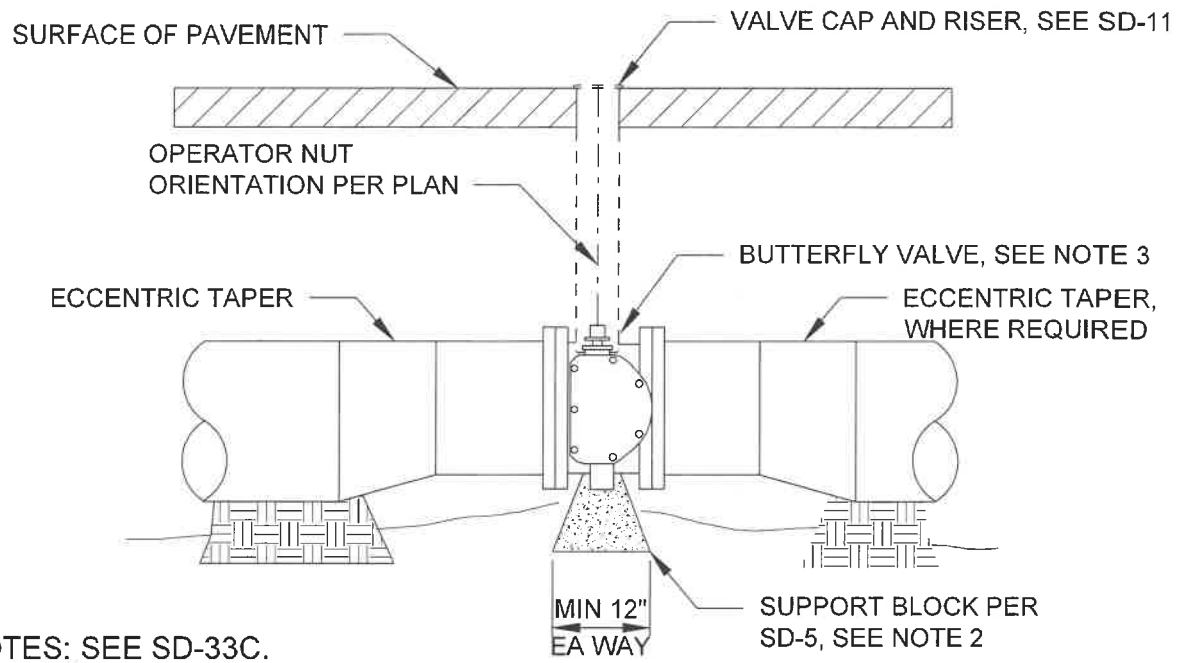
APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Terrytone Public Water District 760.367.7546

STANDARD DRAWING
BUTTERFLY VALVES INSTALLATION, C.I. AND D.I. FITTING AND STEEL PIPE SADDLE OUTLET

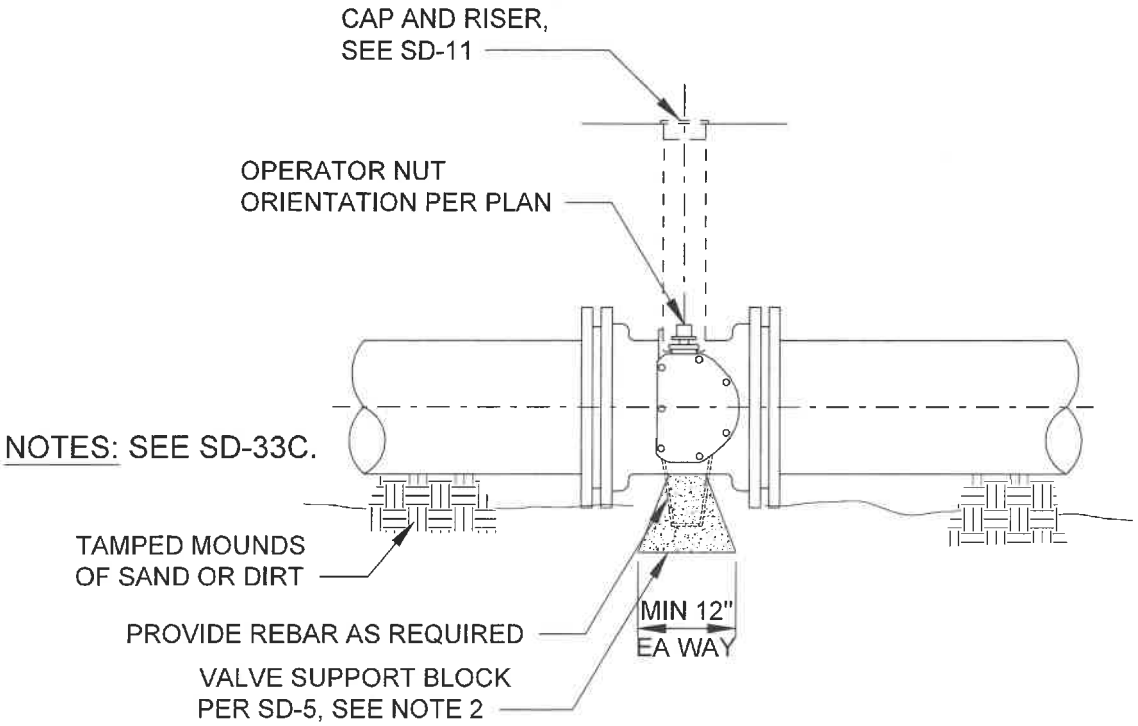
SCALE: NTS
DWG. NO. SD-33A



NOTES: SEE SD-33C.

STEEL PIPE IN LINE VALVE

SHOWING PAVED STREET



NOTES: SEE SD-33C.

MECHANICAL JOINT CONNECTIONS (AC, PVC, DI)

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Twentynine Palms Water District 760.367.7548

STANDARD DRAWING
BUTTERFLY VALVES
INSTALLATION,
STEEL PIPE IN LINE VALVE
AND MJ CONNECTIONS

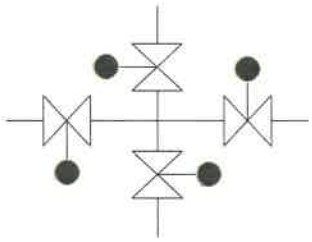
SCALE: NTS

DWG. NO.

SD-33B



VALVE OPERATOR NOT TO BE PLACED COUNTER CLOCKWISE OF VALVE



PLAN

SCALE: NTS

NOTES:

1. FLEXIBLE JOINTS IN PIPELINES FROM VALVES OR IN BRANCH LINES SHALL BE WELDED OR RESTRAINED TO PROVIDE ANCHORAGE FOR UNBALANCED FORCES.

2. CONCRETE SUPPORTS TO AVOID INTERFERENCE WITH BOLTED OR HUB END CONNECTIONS AND SHALL BE POURED AGAINST UNDISTURBED EARTH.

3. USE VICTAULIC COUPLING ONLY IF REQUIRED BY THE ENGINEER OR IF SPECIFICALLY NOTED ON THE PLANS.

4. CONCRETE PAD SHALL BE OF CLASS "A" CONCRETE 3000 PSI.
   A. CLOSED CELL NEOPRENE PER ASTM D-1056, D-1667a & D-412;
      - COMPRESSION RESISTANCE = 5-13 PSI
      - 50% COMPRESSION SET = 25%
      - DENSITY = 15-30 LBS/FT^3
      - WATER ABSORPTION = 0.1 MAX LBS/FT^2
      - TENSILE = 150 MIN. PSI
      - ELONGATION = 350 MIN. %

REVISION NO.	DATE

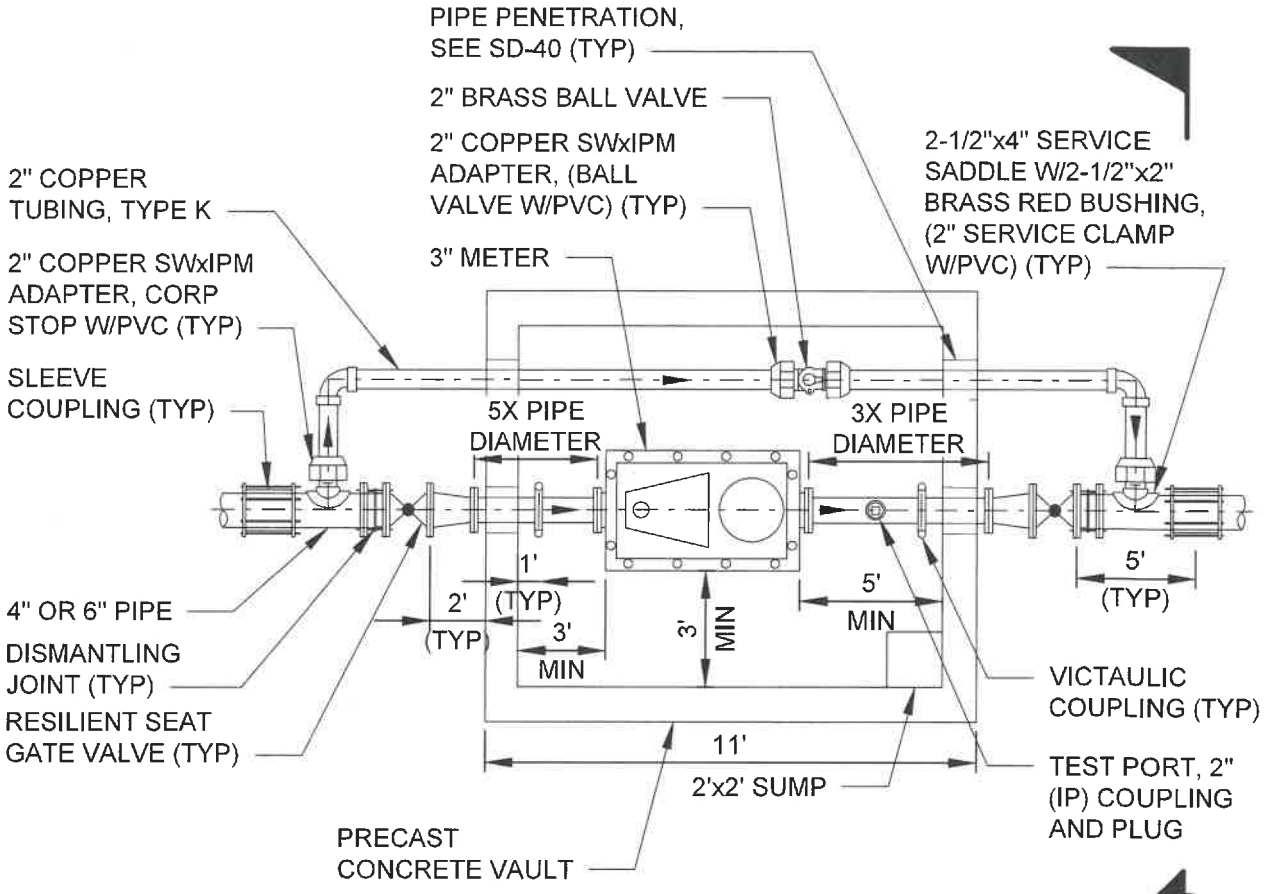
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MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Twenty-nine Palms Water District 760.367.7546

STANDARD DRAWING
BUTTERFLY VALVES INSTALLATION, GENERAL

SCALE: NTS
DWG. NO.
SD-33C



NOTES: SEE SD-34E.

A
SD-34E

PLAN

SCALE: NTS

METER TABLE

METER SIZE	FLOW RATE (GPM)	LATERAL SIZE	VELOCITY (FT/S)	METER LENGTH
3" OMNI C2	400	4"	8.4	17"
3" OMNI T2	500	4"	10.6	19"
3" OCTAVE	500	4"	10.6	12"
3" OMNI C2	400	6"	4.1	17"
3" OMNI T2	500	6"	5.1	19"
3" OCTAVE	500	6"	5.1	12"

REVISION NO.	REVISION DATE

APPROVED: (DATE)

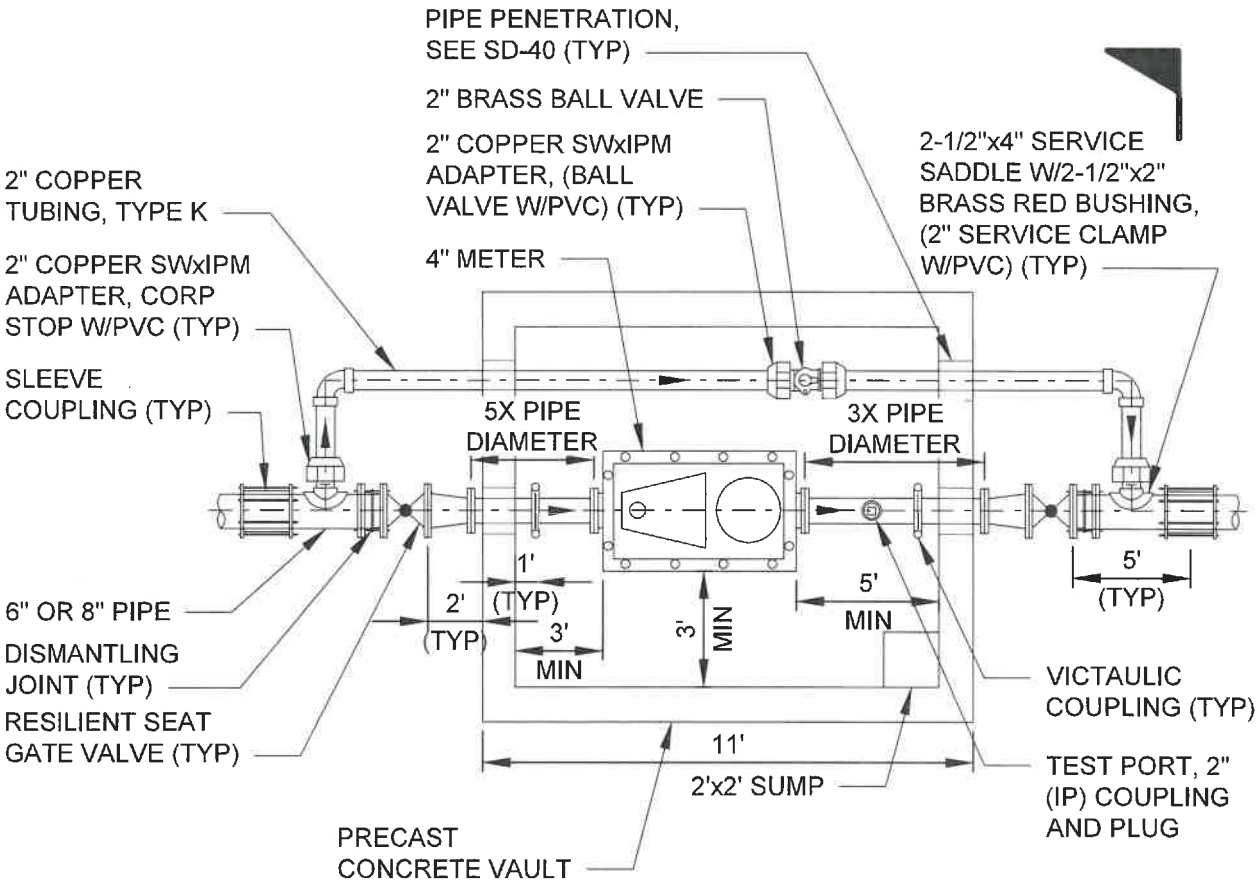
MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Twentynine Palms Water District 760.367.7548

STANDARD DRAWING
METER INSTALLATION, 3"

SCALE: NTS

DWG. NO. SD-34A



NOTES: SEE SD-34E.

PLAN

SCALE: NTS

A
SD-34E

METER TABLE

METER SIZE	FLOW RATE (GPM)	LATERAL SIZE	VELOCITY (FT/S)	METER LENGTH
4" OMNI C2	800	6"	8.2	20"
4" OMNI T2	1000	6"	10.2	23"
4" OCTAVE	1000	6"	10.2	14"
4" OMNI C2	800	8"	4.8	20"
4" OMNI T2	1000	8"	5.9	23"
4" OCTAVE	1000	8"	5.9	14"

REVISION NO.	REVISION DATE

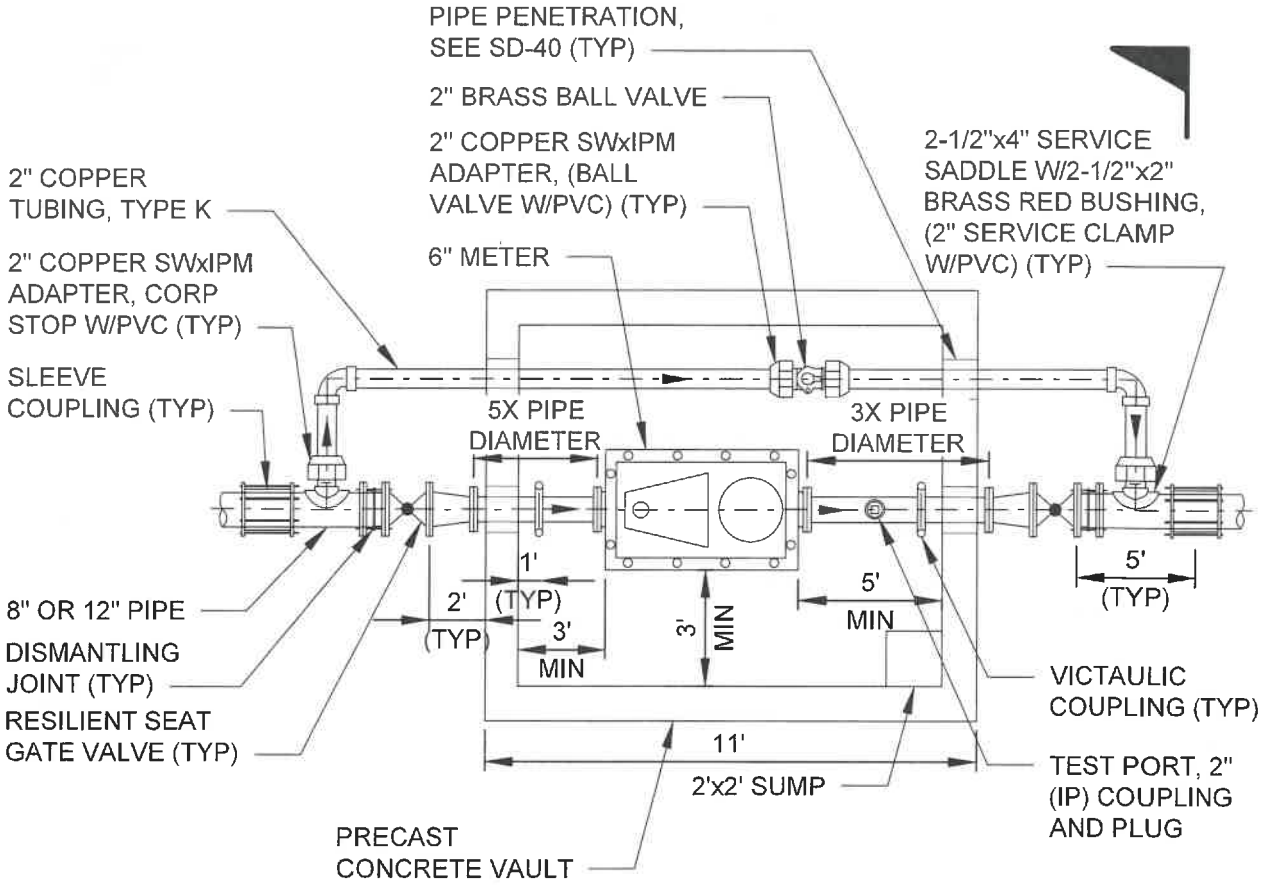
APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Twenty-nine Palms Water District 760.367.7546

STANDARD DRAWING
METER INSTALLATION, 4"

SCALE: NTS
DWG. NO. SD-34B



NOTES: SEE SD-34E.

A
SD-34E

PLAN

SCALE: NTS

METER TABLE

METER SIZE	FLOW RATE (GPM)	LATERAL SIZE	VELOCITY (FT/S)	METER LENGTH
6" OMNI C2	1600	8"	9.5	24"
6" OCTAVE	1600	8"	9.5	18"
6" OMNI C2	1600	12"	4.5	24"
6" OCTAVE	1600	12"	4.5	18"
6" OMNI T2	2000	12"	5.6	27"

REVISION NO.	REVISION DATE

APPROVED: _____ (DATE)

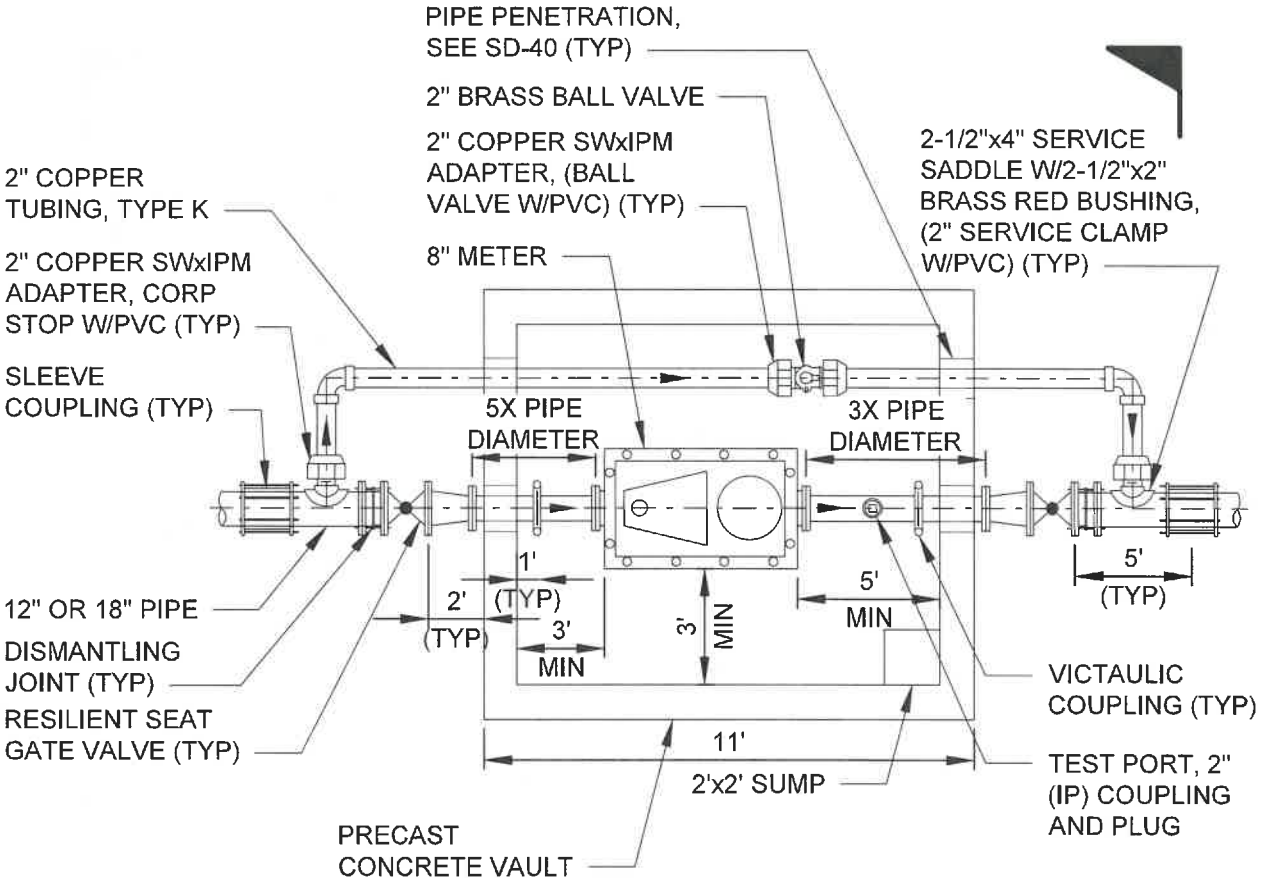
MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Terrytone Palms Water District 760.367.7546

STANDARD DRAWING
METER INSTALLATION, 6"

SCALE: NTS

DWG. NO. SD-34C



NOTES: SEE SD-34E.

PLAN

SCALE: NTS

A
SD-34E

METER TABLE

METER SIZE	FLOW RATE (GPM)	LATERAL SIZE	VELOCITY (FT/S)	METER LENGTH
8" OMNI C2	2700	12"	7.5	30-1/8"
8" OCTAVE	2800	12"	7.8	20"
8" OMNI T2	3500	12"	9.8	30-1/8"
8" OMNI C2	2700	18"	3.4	30-1/8"
8" OCTAVE	2800	18"	3.6	20"
8" OMNI T2	3500	18"	4.4	30-1/8"

REVISION NO.	REVISION DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Terrebonne Parish Water District 780.857.7546

STANDARD DRAWING
METER INSTALLATION, 8"

SCALE: NTS
DWG. NO.
SD-34D

NOTES:

1. PROVIDE SUPPORTS AS REQUIRED.
2. IF VAULT IS PLACED IN DIRT/LANDSCAPE, PLACE TOP 4" ABOVE GRADE AND GRADE AWAY FROM VAULT TO PREVENT WATER FROM ENTERING.
3. WHEN VAULT IS PLACED IN HIGH LOAD OR TRAFFIC PRONE AREAS, VAULT AND LID SHALL BE ABLE TO WITHSTAND AASHTO H-20 VEHICULAR LOADS.
4. VAULT LIDS SHALL HAVE SPRING ASSIST FOR BOTH LIDS.
5. VAULT SHALL BE A MINIMUM OF 3' DEEP AND A MAXIMUM OF 5' DEEP WHERE FEASIBLE.

PLACEMENT OF METER VAULT

A. PLACE FRONT EDGE OF VAULT 6" BEHIND EXISTING OR PROPOSED 6' OR 8' SIDEWALKS.

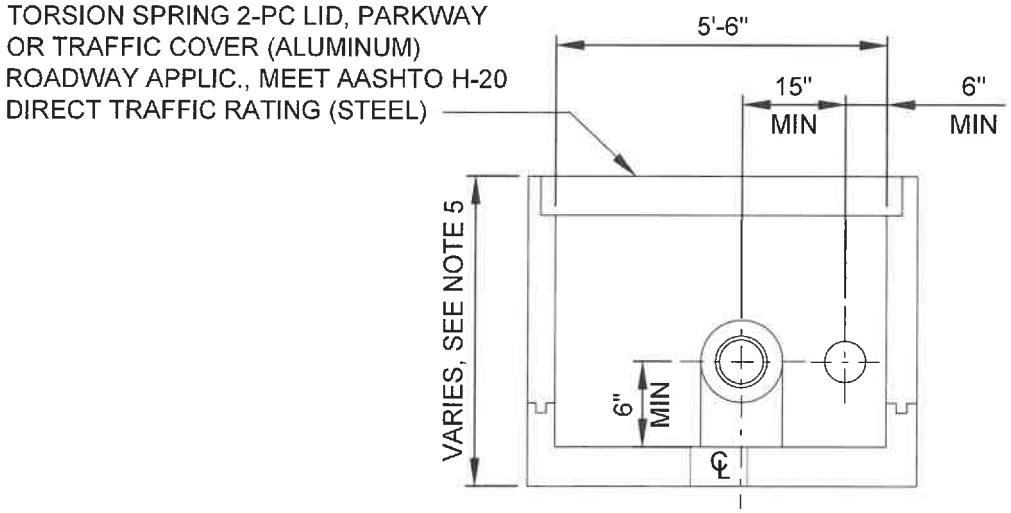
B. WHEN PROPOSED OR EXISTING SIDEWALKS IS 12' WIDE, PLACE FRONT EDGE OF VAULT 1.5' BEHIND CURB USING APPROPRIATE BOX.

C. WHEN NO SIDEWALK IS PROPOSED, PLACE FRONT EDGE OF VAULT 6.5' BEHIND CURB.

D. WHEN NO CURBS ARE EXISTING OR TO BE INSTALLED UPON COMPLETION OF THE WATER SYSTEM, PLACE BACK EDGE OF VAULT ON PROPERTY LINE.

E. WHEN INSTALLED IN CONCRETE (SIDEWALK), USE COVER ASSEMBLY THAT AVOIDS TRIPPING HAZARDS, AND WHICH INCLUDES READING LID.

F. A MINIMUM 5' SEPARATION IS TO BE MAINTAINED BETWEEN THE SEWER LATERAL, WATER SERVICE, AND RECYCLED WATER SERVICE.



A VARIES SECTION
SCALE: NTS

REVISION NO.	DATE

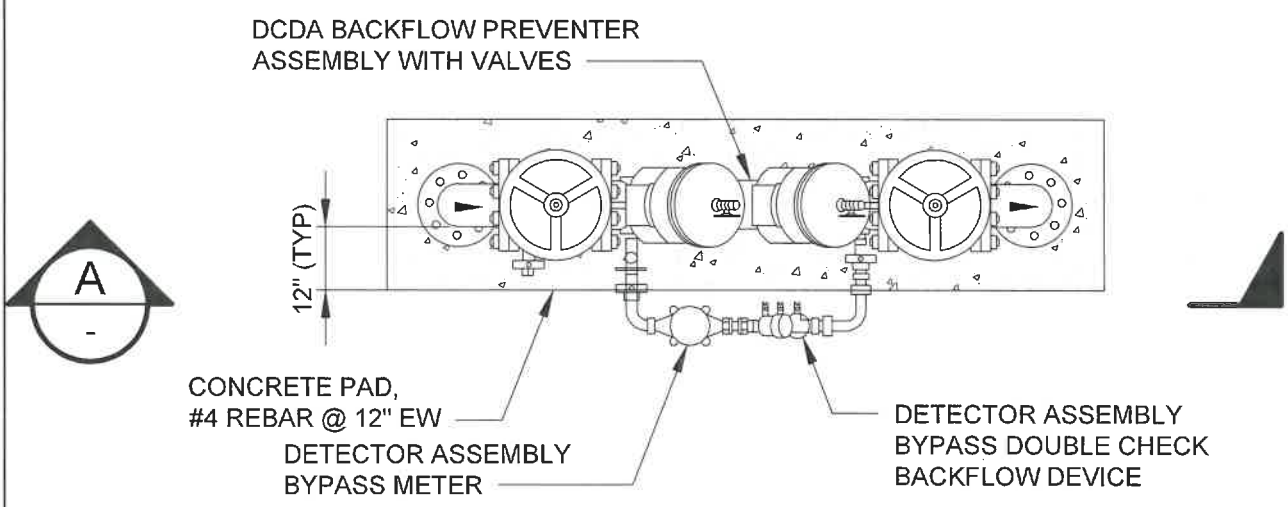
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MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Terrytowne Public Water District 760.367.7548

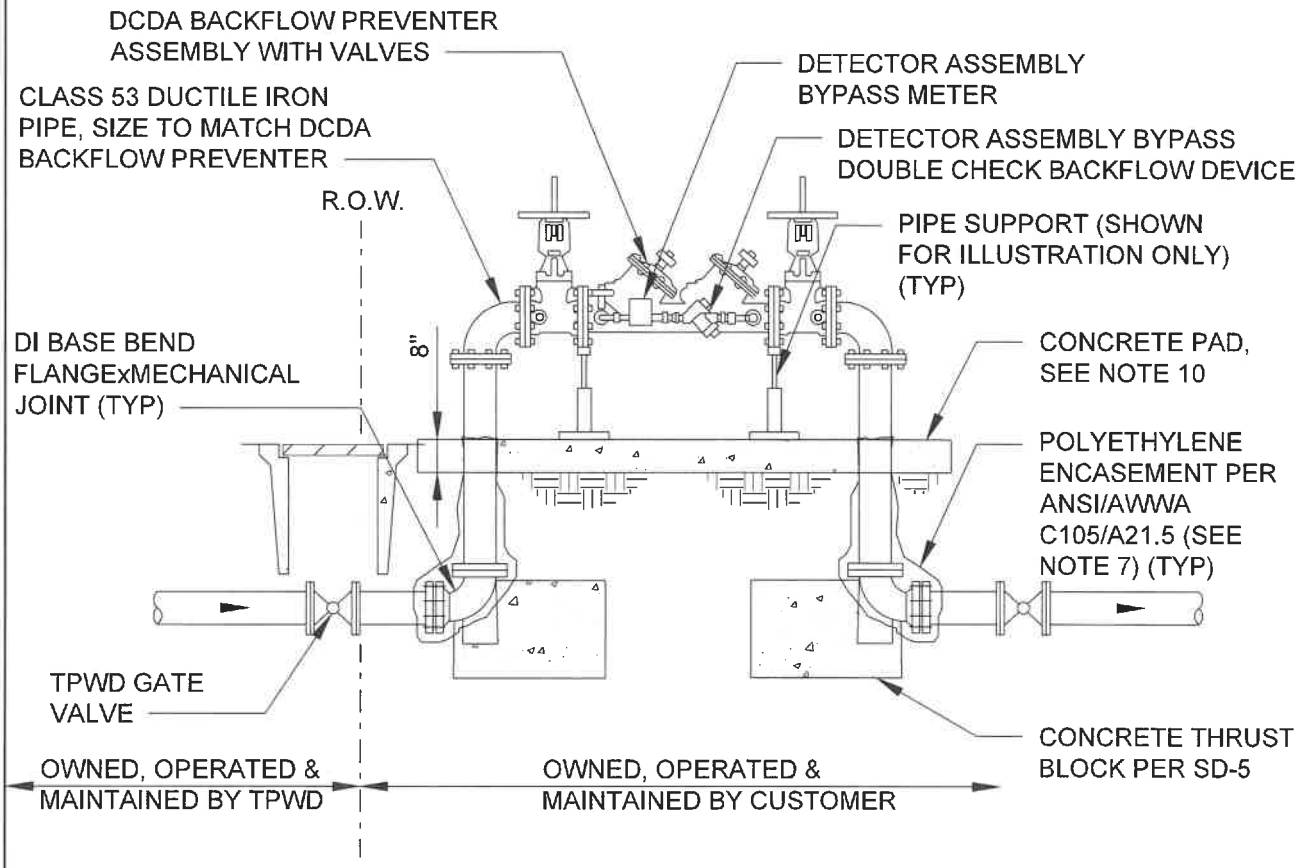
STANDARD DRAWING
METER INSTALLATION, GENERAL

SCALE: NTS
DWG. NO. SD-34E



A
-

PLAN
SCALE: NTS



A
-

SECTION
SCALE: NTS

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Trinity Palms Water District 760.367.7646

STANDARD DRAWING
DOUBLE CHECK
DETECTOR ASSEMBLY
REDUCED PRESSURE
DETECTOR ASSEMBLY

SCALE: NTS
DWG. NO.
SD-35A

NOTES:

1. PROVIDE A USC APPROVED BACKFLOW PREVENTION ASSEMBLY AS DESIGNATED BY TPWD APPROVED MATERIALS LIST SPECIFICATIONS.

2. TPWD MAINTENANCE RESPONSIBILITY STOPS AT THE RIGHT OF WAY. THE CUSTOMER IS RESPONSIBLE TO TEST AND MAINTAIN THE BACKFLOW PREVENTION ASSEMBLY, IN ACCORDANCE TPWD ADMINISTRATIVE CODE.

3. CERTIFICATION TESTING IS REQUIRED IMMEDIATELY AFTER AN ASSEMBLY IS RELOCATED, REPLACED, REPAIRED, NEW INSTALLATION ACCEPTANCE AND WATER DELIVERY PER TPWD ADMINISTRATIVE CODE PRIOR TO NEW INSTALLATION ACCEPTANCE AND WATER DELIVERY.

4. BACKFLOW PREVENTION ASSEMBLY INSTALLATIONS INCLUDING ALL APPURTENANCES FOR THE SUPPLY OF DOMESTIC WATER SHALL BE NSF 61 CERTIFIED.

5. BACKFLOW PREVENTION ASSEMBLIES SHALL BE LOCATED AS SHOWN ON PLANS OR AS CLOSE AS PRACTICAL TO THE RIGHT OF WAY BUT NOT FURTHER THAN 3 FEET WITHOUT TPWD APPROVAL. ASSEMBLY SHALL BE VISIBLE AND READILY ACCESSIBLE FROM THE RIGHT-OF-WAY AND MEET ALL CITY ZONING AND BUILDING CODES.

6. NO OUTLETS, TEES, OR CONNECTIONS SHALL BE ALLOWED BETWEEN TPWD GATE VALVE AND BACKFLOW ASSEMBLY.

7. BACKFLOW PREVENTION ASSEMBLIES SHALL MAINTAIN A VERTICAL CLEARANCE FROM THE LOWEST POINT OF 12 INCHES (MINIMUM) TO 36 INCHES (MAXIMUM) ABOVE FINISHED GRADE, WITH SIDE AND TOP CLEARANCES OF 12 INCHES (MINIMUM) FROM ANY OBSTRUCTIONS IN ALL DIRECTIONS.

8. POLYETHYLENE ENCASEMENT SHALL BE INSTALLED PER ANSI/AWWA C105/A21.5 REQUIREMENTS. HIGH-DENSITY POLYETHYLENE (HDPE) SHALL BE A MINIMUM OF .004 (4 MIL) THICKNESS. LOW-DENSITY POLYETHYLENE (LDPE) SHALL BE A MINIMUM OF .008 (8 MIL) THICKNESS.

9. ALL DI JOINTS SHALL BE RESTRAIN TYPE.

10. TOP OF CONCRETE PAD SHALL BE 2" ABOVE ADJACENT GRADE IF PLACED IN DIRT, LEVELED WITH ADJACENT GRADE IF PLACED IN AC PAVEMENT OR CONCRETE.

RECOMMENDED DCDA & RPDA SIZE (FOR REFERENCE ONLY)

SIZE	FLOWS (MIN-MAX)
4"	1 GPM - 500 GPM
6"	1 GPM - 1,000 GPM
8"	1 GPM - 1,600 GPM
10"	1 GPM - 2,300 GPM
12"	1 GPM - 3,500 GPM

REVISION NO.	REVISION DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

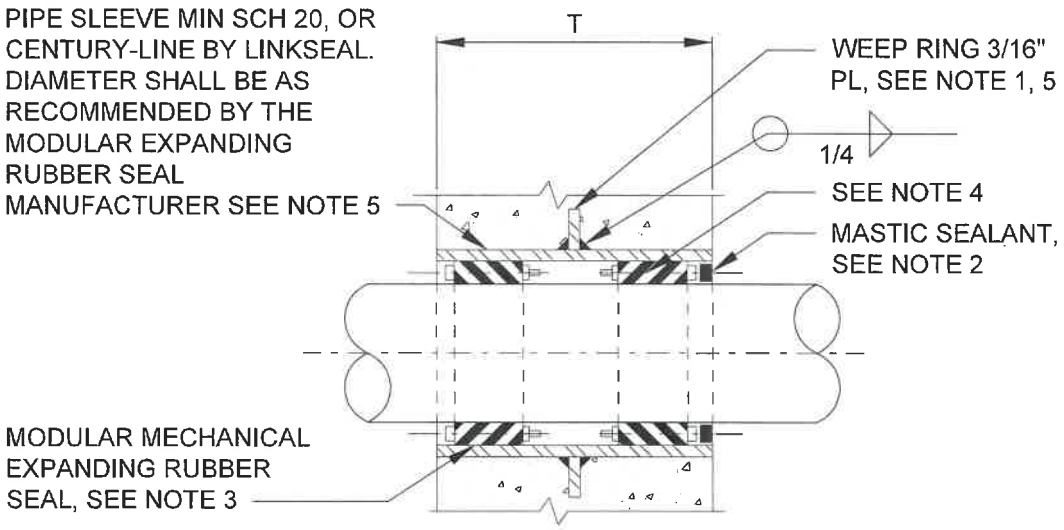
TPWD Terrytown Palms Water District 760.367.7546

STANDARD DRAWING
DOUBLE CHECK
DETECTOR ASSEMBLY
REDUCED PRESSURE
DETECTOR ASSEMBLY

SCALE: NTS

DWG. NO.

SD-35B



NOTES:

1. WEEP RING SHALL HAVE A MINIMUM DIAMETER 3 INCHES GREATER THAN THE OUTSIDE PIPE DIAMETER OF SLEEVE.

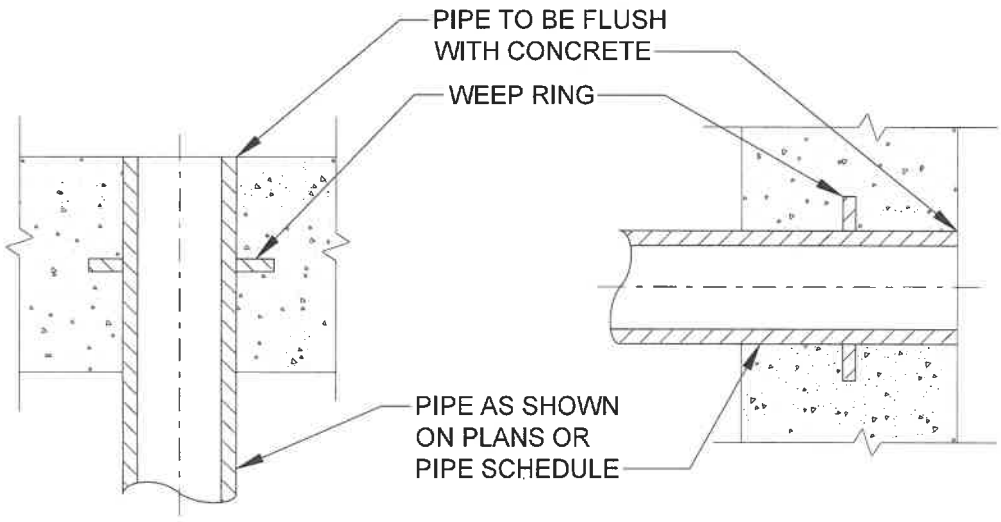
2. WHERE FACE OF WALL OR FLOOR IS EXPOSED TO LIQUID, EARTH, OR A CLASSIFIED HAZARDOUS AREA, SEAL ANNULAR SPACE WITH MASTIC SEALANT.

3. WHERE USED WITH COPPER PIPE, PROVIDE GLASS REINFORCED NYLON PRESSURE PLATES. OTHERWISE, PROVIDE STAINLESS ATTACHMENT HARDWARE.

4. FOR WALL OR FLOOR THICKNESS, T, GREATER THAN OR EQUAL TO 12 INCHES, PROVIDE MODULAR EXPANDING RUBBER SEAL ON BOTH ENDS OF PIPE PENETRATION.

5. WHERE PIPE PENETRATES EXISTING WALLS OR FLOORS, OMIT SLEEVE AND WEEP RING, CORE DRILL HOLE THROUGH EXISTING WALL OR FLOOR.

GENERIC PIPE PENETRATION



PIPE PENETRATION WITH EXPOSURE TO LIQUID ON ONE SIDE OR BOTH SIDES AT DIFFICULT OT REACH LOCATIONS

REVISION NO.	DATE

APPROVED: _____ (DATE)

MATTHEW SHRAGGE
GENERAL MANAGER

TPWD Twenty-nine Palms Water District 760.367.7546

STANDARD DRAWING
PIPE PENETRATION

SCALE: NTS

DWG. NO.

SD-36

3

RESOLUTION 26-15
A RESOLUTION OF THE BOARD OF DIRECTORS
RECOGNIZING AMY WOODS
FOR DISTINGUISHED PUBLIC SERVICE AS A DIRECTOR AND OFFICER
OF THE TWENTYNINE PALMS WATER DISTRICT

WHEREAS, Amy Woods faithfully and with honor, integrity, and great distinction served as a Board of Director of the Twentynine Palms Water District for three years from September 2023 through December 2026; unselfishly contributing her time and efforts benefitting the community of Twentynine Palms;

WHEREAS, Amy Woods has provided leadership and guidance to the Board of Directors, General Manager, and staff;

WHEREAS, Amy Woods has assisted, guided, and directed the administration of the District during her time to serve the needs of the residents within the District; including but not limited to, the following accomplishments:

> Ensured the best possible drinking water at the lowest feasible cost to the citizens of Twentynine Palms; Provided guidance and input in the decision making process of the Board of Directors; Committed to reducing debt service of the District through the annual budget process;
>
> Advocating collaboration with local public entities for the betterment and growth of the community; Influential in the decision to work closely with the City in sharing proposed development and planning;
>
> Ardent supporter of safeguarding transparency through public outreach and community events during the Rate Study;

WHEREAS, Amy Woods' contributions and public service as a Board of Director deserve recognition and appreciation for her continued commitment to the District and the residents, businesses, and the customers it serves.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Twentynine Palms Water District does, by this Resolution, acknowledge and commend Amy Woods for her distinguished years of public service as a Director and Officer of the Twentynine Palms Water District.

PROCLAIMED by the Board of Directors of the Twentynine Palms Water District this 18th day of November 2026, by the following vote:

Ayes:
Noes:
Abstain:
Absent:

Attest:

_____
Matthew Shragge, Board Secretary
Twentynine Palms Water District

_____
Bob Coghill, Vice President
Board of Directors

4

MINUTES OF A REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE TWENTYNINE PALMS WATER DISTRICT 72401 HATCH ROAD, TWENTYNINE PALMS, CA 92277

October 28, 2026 / 4:00 P.M.

Call to Order and Roll Call
President Bob Coghill called the Board meeting to order at 4:00 p.m. Those responding to roll call were Directors Larry Bowden, Bob Coghill, Randy Leazer, and Amy Woods. Director Michael Arthur was absent. Also present were General Manager Matt Shragge, Financial Consultant Scott Nelsen, District Secretary Cindy Fowlkes, and Service Worker II Austin Murphy. Director of Operations Mike Minatrea was absent.

Pledge of Allegiance
Austin Murphy led the pledge.

Additions/Deletions to the Agenda
None

Public Comments
None

1. Morongo Basin Conservation Association Presentation
Pat Flanagan gave a presentation on the Desert-Wise Landscape Programs since its inception in 2011 to the present. The first five years saw a one (1) day event with10 sites. The popularity grew over the years to a two (2) day event with 22 different sites. This year's theme was "Transformation: Revitalizing Disfigured Landscapes." The event included a native plant walk, an additional demonstration garden, a pollinator lecture, and video instruction on greywater, desert-wise planting, and effective watering strategies. Total video views is at 440,494. Native plants are important to native pollinators and reducing carbon. It was announced the tour will take a hiatus during the 2027 year, but staff will continue working on promoting water conservation. The Board was thanked for their continued support of the organization.

2. Consider Resolution 26-12 Pertaining to the Retention of Records and Repealing all Policies Inconsistent Herewith
California Government Code section 60200-60204 provides a procedure for records retention and destruction. The policy will provide staff with guidelines regarding the retention of records and the destruction of obsolete and unnecessary records of the District.

Director Woods moved to approve Resolution 26-12 approving a Retention of Records policy and repealing all policies inconsistent herewith, seconded by Director Bowden, and approved by the following roll call vote:

Ayes:	Directors Bowden, Leazer, Woods, and Coghill
Noes:	None
Abstain:	None
Absent:	Director Arthur

3. Discussion and Consideration of Resolution 26-13 Adopting Revised Publicly Available Pay Schedules in Accordance with CalPERS Guidelines

CalPERS informed the District that their pay schedules needed to be revised to clarify pay as an hourly wage. The District has provided the clarification, and in accordance to CalPERS guidelines (California Code of Regulations section 570.5 and 571.1) are re-adopting pay schedules from 2022-2027 with the required verbiage.

Director Bowden moved to approve Resolution 26-13 adopting revised publicly available pay schedules in accordance with CalPERS guidelines, seconded by Director Woods, and approved by the following roll call vote:

Ayes:	Directors Bowden, Leazer, Woods, and Coghill
Noes:	None
Abstain:	None
Absent:	Director Arthur

4. Consent Calendar

- Minutes of a Regular Meeting held on September 23, 2026
- Audit List

Director Woods moved to approve the Minutes and Audit List, seconded by Director Leazer, and approved unanimously.

5. Items Removed from the Consent Calendar for Discussion or Separate Action

None

6. Management Reports

6.1 Maintenance

Austin reported that the District responded to 56 Underground Service Alerts, had 0 water main leaks, 0 water meter leaks, 0 service line leaks, 0 fire hydrant repairs/maintenance, installed 0 new services, replaced 3 customer gate valves, performed 5 leak audits, painted 0 fire hydrants, performed 1 customer pressure check, replaced 4 water meters, Tested and exercised emergency generators and sounded wells for September. 0 water waste inquiries were received. There was a total of 531 work orders processed during the month.

6.2 Water Quality

Austin reported water production was down 10.28% as compared to the same month in 2013. 40 routine and 16 special water samples were taken. All special samples tested negative for Colilert. All current wells meet the 2.0 mg/L standard fluoride variance set by the State Water Resource Control Board. All samples tested were below the variance.

6.3 Finance

Scott Nelsen reported on August financials. The budget is at 17% with revenue at 19% due to the hot summer months. Expenses are trending at 13%.

6.4 General Manager

Matt reported District staff is expecting the installation of pipe and electrical conduit at the redundant reservoir. Staff is working on two LAFCO annexations and is expecting to bring the indemnifications to the Board next month. Hours of operation

signs and a neon "Open" sign have been installed outside and in the front lobby. Matt thanked the Morongo Unified School District for allowing him to participate in being principle for day at the high school. The Annual Water Loss validation was submitted for the year. The District remains at a 70% benchmark. The District teamed up with nearby water districts in the support of new bills introduced by Greg Wallis and Rosilicie Ochoa Bogh concerning Western Joshua Tree conservation. The bills also included language making it feasible for development on property that has Joshua Trees on it. Matt wished President Coghill and Mike Minatrea a happy birthday.

7. Future Agenda Items and Staff Tasks/Directors' Comments and Reports

Director Woods commended Austin for his reporting on the Maintenance and Treatment reports.

Director Leazer wants staff to make sure the Morongo Basin Conservation link is on the website.

Director Coghill also commended Austin for his reporting.

8. Adjournment

On motion by Director Leazer, seconded by Director Woods, and approved by the Board, the regular meeting was adjourned at 4:43 p.m.

_____

Bob Coghill, President
Board of Directors

Attest:

_____

Matthew Shragge, Board Secretary
Twentynine Palms Water District

Twentynine Palms Water District

Check Date Range: 10/1/2026 thru 10/31/2026

Ck No	Ck Date	Payable To	Ck Amt	Ck Detail	GL Acct No	Description
27085	10/07/2026	ACWA/JOINT POWERS INSURANCE AUTHORITY	11,667.33	11,667.33	100-310-0000-5161	Quarter 1 Workers' Compensation Program 7/1/2026-9/30/2026
108344	10/07/2026	ACWA/JPIA	35,150.61	4,087.31	100-310-0000-5144	November 2026 Health Coverage
				1,545.02	100-310-0000-5141	November 2026 Health Coverage
				352.31	100-310-0000-5142	November 2026 Health Coverage
				29,165.97	100-310-0000-5140	November 2026 Health Coverage
54174	10/07/2026	Customer Refund	140.34	70.17	100-000-0000-2000	Refund Check 032362-000, 73354 Sun Valley Drive
				70.17	100-000-0000-2000	Refund Check 032362-000, 73354 Sun Valley Drive
54176	10/07/2026	Customer Refund	14.88	7.44	100-000-0000-2000	Refund Check 032771-000, 6001 Mariposa Avenue
				7.44	100-000-0000-2000	Refund Check 032771-000, 6001 Mariposa Avenue
27089	10/07/2026	Anixter Inc	1,608.28	1,608.28	100-875-0000-6001	Single IP Camera License
54180	10/07/2026	Customer Refund	145.17	72.58	100-000-0000-2000	Refund Check 014170-000, 71810 El Paseo Drive
				72.59	100-000-0000-2000	Refund Check 014170-000, 71810 El Paseo Drive
135455	10/07/2026	Jeff Arwick	1,260.00	125.00	100-150-0000-5220	Replace CL2 Generator Pump Motor (Invoice#25112)
				75.00	100-150-0000-5406	Replaced Conduit WTP-2 (Invoice#25112)
				750.00	100-130-0000-5220	Upgrade 400A Generator Connectors (Invoice#25112)
				210.00	100-600-0000-5406	Repaired Entry Light Main Office Entry Door (Invoice#25112)
				100.00	100-850-0000-6001	Installed Shielded Cable For Donnell Transducer SCADA Upgrade (I
54184	10/07/2026	Customer Refund	160.22	80.11	100-000-0000-2000	Refund Check 031115-000, 73444 Friendly Lane
				80.11	100-000-0000-2000	Refund Check 031115-000, 73444 Friendly Lane
27093	10/07/2026	Beck Oil Inc.	1,060.39	1,060.39	100-130-0000-5220	invoice # 228424 oil for diesel motors
54188	10/07/2026	Best Best & Krieger	3,291.20	3,029.40	100-600-0000-5403	Professional Services Rendered Through September 30, 2026
				261.80	100-600-0000-5403	Professional Services Rendered Through September 30, 2026
135475	10/07/2026	Beyond Software Solutions	6,011.20	1,560.00	100-600-0000-5406	Consulting Services Sept 2026
				390.00	100-600-0000-5406	Offsite Consulting Services 10/1/2026
				1,000.00	100-600-0000-5406	Monthly IT Bundled Services (Oct)
				2,061.20	100-875-0000-6001	CCTV Project Phase 3
				1,000.00	100-600-0000-5406	Annual Support & Maintenance for Itron AMI data Software
54192	10/07/2026	Customer Refund	44.11	22.05	100-000-0000-2000	Refund Check 006406-000, 1120 Lear Avenue
				22.06	100-000-0000-2000	Refund Check 006406-000, 1120 Lear Avenue
54194	10/07/2026	Customer Refund	174.86	87.43	100-000-0000-2000	Refund Check 030509-000, 5746 Halsey Avenue

Twentynine Palms Water District

Check Date Range: 10/1/2026 thru 10/31/2026

				87.43	100-000-0000-2000	Refund Check 030509-000, 5746 Halsey Avenue
54196	10/07/2026	Customer Refund	49.17	24.59	100-000-0000-2000	Refund Check 027961-000, 4752 Flying H Road
				24.58	100-000-0000-2000	Refund Check 027961-000, 4752 Flying H Road
54198	10/07/2026	Customer Refund	56.55	28.28	100-000-0000-2000	Refund Check 012113-000, 6436 Cahuilla Avenue
				28.27	100-000-0000-2000	Refund Check 012113-000, 6436 Cahuilla Avenue
54200	10/07/2026	Customer Refund	173.48	86.75	100-000-0000-2000	Refund Check 008075-004, 6845 Indian Cove Road
				86.73	100-000-0000-2000	Refund Check 008075-004, 6845 Indian Cove Road
54202	10/07/2026	Customer Refund	163.86	81.93	100-000-0000-2000	Refund Check 021296-020, 71690 Juanita Drive
				81.93	100-000-0000-2000	Refund Check 021296-020, 71690 Juanita Drive
54204	10/07/2026	Customer Refund	175.83	87.92	100-000-0000-2000	Refund Check 031773-000, 73761 Serrano Drive
				87.91	100-000-0000-2000	Refund Check 031773-000, 73761 Serrano Drive
27103	10/07/2026	City of Twentynine Palms	50,000.00	50,000.00	100-800-0000-6001	USGS Study 1st Contribution - FY 2026-27
54208	10/07/2026	Customer Refund	163.26	81.63	100-000-0000-2000	Refund Check 032404-000, 5555 Mariposa Avenue
				81.63	100-000-0000-2000	Refund Check 032404-000, 5555 Mariposa Avenue
54210	10/07/2026	Customer Refund	152.72	76.36	100-000-0000-2000	Refund Check 032852-001, 73355 Sun Valley Drive
				76.36	100-000-0000-2000	Refund Check 032852-001, 73355 Sun Valley Drive
271060	10/07/2026	Desert Ace Hardware	296.48	74.11	100-130-0000-5220	straps and tie down 29755/1
				4.18	100-130-0000-5222	invoice # 29944/1 mffastners for light bar eq#22
				3.60	100-130-0000-5220	key id 29919/1
				16.40	100-130-0000-5220	plug and tape 29945/1
				11.01	100-130-0000-5220	mount tape 29918/1
				21.53	100-130-0000-5220	led tb 29797/1
				94.15	100-130-0000-5220	tank spray 29901/1
				13.02	100-130-0000-5222	invoice #30026/1 d ring for tank mounts on eq#96
				32.06	100-130-0000-5220	pl 24" p brm 29824/1
				26.42	100-130-0000-5220	wire and wire strippers 29823/1
27107	10/07/2026	Desert Fire Extinguisher Co. Inc.	454.63	454.63	100-600-0000-5406	Service Call Sprinkler Repair. Main Office (Invoice#1250813)
54216	10/07/2026	Customer Refund	175.14	87.57	100-000-0000-2000	Refund Check 021236-002, 7121 Quail Springs
				87.57	100-000-0000-2000	Refund Check 021236-002, 7121 Quail Springs
54218	10/07/2026	Customer Refund	125.42	62.71	100-000-0000-2000	Refund Check 032189-000, 6692 Valley View Drive
				62.71	100-000-0000-2000	Refund Check 032189-000, 6692 Valley View Drive
54220	10/07/2026	Customer Refund	114.79	57.40	100-000-0000-2000	Refund Check 029671-000, 5530 Abronia Avenue

Twentynine Palms Water District

Check Date Range: 10/1/2026 thru 10/31/2026

				57.39	100-000-0000-2000	Refund Check 029671-000, 5530 Abronia Avenue
54222	10/07/2026	Customer Refund	178.59	89.30	100-000-0000-2000	Refund Check 013440-005, 5533 Encelia Avenue
				89.29	100-000-0000-2000	Refund Check 013440-005, 5533 Encelia Avenue
54224	10/07/2026	Customer Refund	72.44	36.22	100-000-0000-2000	Refund Check 032396-000, 7737 North Star Avenue
				36.22	100-000-0000-2000	Refund Check 032396-000, 7737 North Star Avenue
27113	10/07/2026	Customer Refund	102.10	102.10	100-130-0000-5242	Class A Reimbursement/Galardo
54228	10/07/2026	Customer Refund	11.59	5.79	100-000-0000-2000	Refund Check 031338-000, 5762 Howard Way
				5.80	100-000-0000-2000	Refund Check 031338-000, 5762 Howard Way
27115	10/07/2026	GMC Electrical Inc.	3,500.00	3,500.00	100-130-0000-5220	Annual Cathodic Protection System Service Agreement for the Year
27116	10/07/2026	Jose Gomez	359.03	359.03	100-000-0000-2000	$397.18-$38.15 Final Bill
108468	10/07/2026	Grainger	1,385.94	228.83	100-130-0000-5220	toilet valves inv 9097916317
				275.86	100-130-0000-5220	general purpose motor inv9098186035
				778.90	100-130-0000-5220	arsenic water test kit 9092744268
				102.35	100-130-0000-5222	invoice # 9097105887 misc air fittings for eq#76
27118	10/07/2026	Harrington Industrial	6,579.07	6,579.07	100-150-0000-5221	invoice # 01205786 husky diaphragm pump for treatment plant
54238	10/07/2026	Customer Refund	179.28	89.64	100-000-0000-2000	Refund Check 021597-002, 4867 Copper Mountain Road
				89.64	100-000-0000-2000	Refund Check 021597-002, 4867 Copper Mountain Road
54240	10/07/2026	Customer Refund	162.57	81.29	100-000-0000-2000	Refund Check 032127-000, 72364 Sunnyvale Drive
				81.28	100-000-0000-2000	Refund Check 032127-000, 72364 Sunnyvale Drive
81363	10/07/2026	Home Depot Credit Services	3,068.03	321.20	100-130-0000-5220	Charges
				2,217.91	100-130-0000-5220	Charges
				528.92	100-150-0000-5220	Charges
27122	10/07/2026	Infosend Inc.	5,671.14	5,671.14	100-160-0000-5406	Mail Production
54246	10/07/2026	Customer Refund	11.59	5.80	100-000-0000-2000	Refund Check 022213-097, 5182 Split Rock Avenue
				5.79	100-000-0000-2000	Refund Check 022213-097, 5182 Split Rock Avenue
54248	10/07/2026	Customer Refund	144.06	72.03	100-000-0000-2000	Refund Check 022213-095, 74955 Alta Loma Drive
				72.03	100-000-0000-2000	Refund Check 022213-095, 74955 Alta Loma Drive
27125	10/07/2026	Interactive Controls, Inc.	9,308.10	9,308.10	100-850-0000-6001	GE MDS OrbitECRU91NNNNS1USUNNN EDGE Router , Non Licensed Radios
27126	10/07/2026	Johnson Equipment Company	2,092.19	2,092.19	100-130-0000-5222	invoice # 10527 light bar for eq # 8
27127	10/07/2026	Joshua Basin Water District	1,411.44	1,411.44	100-120-0000-5406	Water Availabilty Standby Charges for 2026/27 FY
54256	10/07/2026	Customer Refund	197.24	98.62	100-000-0000-2000	Refund Check 026863-000, 69827 Mesa Drive
				98.62	100-000-0000-2000	Refund Check 026863-000, 69827 Mesa Drive

Twentynine Palms Water District

Check Date Range: 10/1/2026 thru 10/31/2026

54258	10/07/2026	Customer Refund	37.19	18.59	100-000-0000-2000	Refund Check 030157-000, 6856 El Sol Avenue
				18.60	100-000-0000-2000	Refund Check 030157-000, 6856 El Sol Avenue
54260	10/07/2026	Customer Refund	155.39	77.70	100-000-0000-2000	Refund Check 031922-000, 7620 Utah Trail
				77.69	100-000-0000-2000	Refund Check 031922-000, 7620 Utah Trail
54262	10/07/2026	Customer Refund	174.86	87.43	100-000-0000-2000	Refund Check 012604-042, 6789 Araby Avenue
				87.43	100-000-0000-2000	Refund Check 012604-042, 6789 Araby Avenue
54264	10/07/2026	Customer Refund	145.17	72.58	100-000-0000-2000	Refund Check 031956-000, 6176 Abronia Avenue
				72.59	100-000-0000-2000	Refund Check 031956-000, 6176 Abronia Avenue
54266	10/07/2026	Customer Refund	39.36	19.68	100-000-0000-2000	Refund Check 007466-532, 73863 Siesta Drive
				19.68	100-000-0000-2000	Refund Check 007466-532, 73863 Siesta Drive
54268	10/07/2026	Customer Refund	174.86	87.43	100-000-0000-2000	Refund Check 024054-013, 5658 Morongo Road
				87.43	100-000-0000-2000	Refund Check 024054-013, 5658 Morongo Road
54270	10/07/2026	Customer Refund	179.97	89.99	100-000-0000-2000	Refund Check 030282-000, 4823 Round-Up Road
				89.98	100-000-0000-2000	Refund Check 030282-000, 4823 Round-Up Road
27136	10/07/2026	Minolta Business Systems	163.54	163.54	100-600-0000-5223	9/1/2026-9/30/2026
54274	10/07/2026	Customer Refund	116.41	58.20	100-000-0000-2000	Refund Check 028613-000, 6026 Morongo Road
				58.21	100-000-0000-2000	Refund Check 028613-000, 6026 Morongo Road
54276	10/07/2026	Customer Refund	17.46	8.73	100-000-0000-2000	Refund Check 013005-000, 5567 Baileya Avenue
				8.73	100-000-0000-2000	Refund Check 013005-000, 5567 Baileya Avenue
27139	10/07/2026	NorthStar Chemical	10,792.52	10,792.52	100-150-0000-5211	Load Of Acid NSF 60 3206 Gallons
271400	10/07/2026	O'Reilly Automotive Inc.	649.78	24.09	100-130-0000-5222	invoice # 6188-252740 wiper fluid for eq # 77
				204.56	100-130-0000-5222	invoice # 6188-245161 battery Eq #85
				276.08	100-130-0000-5222	invoice # 6188-250163 Battery for eq # 12
				236.52	100-130-0000-5222	invoice # 6188-252749 battery eq #1
				55.56	100-130-0000-5222	invoice # 6188-253411 def for eq #76
				10.76	100-130-0000-5222	invoice # 6188-252468 add a circuit for light bar on #22 firston
				22.61	100-130-0000-5222	invoice # 6188-252466 add a circuit for light bar on #22
				(204.56)	100-130-0000-5222	invoice # 6188-245165 battery eq #26 Return
				12.76	100-130-0000-5220	invoice # 6188-252623 wire caps
				11.40	100-130-0000-5222	invoice # 6188- 252511 bolt and nut for radio mount eq #80
27141	10/07/2026	Pitney Bowes Inc.	58.61	58.61	100-600-0000-5301	Cleaning Pack for Postage Machine
108568	10/07/2026	Prudential Overall Supply	892.18	123.96	100-130-0000-5253	Plant

Twentynine Palms Water District

Check Date Range: 10/1/2026 thru 10/31/2026

				108.54	100-130-0000-5253	Plant
				375.68	100-130-0000-5253	Hatch
				284.00	100-130-0000-5253	Hatch
54286	10/07/2026	Customer Refund	169.34	84.67	100-000-0000-2000	Refund Check 032571-000, 73408 Yucca Avenue
				84.67	100-000-0000-2000	Refund Check 032571-000, 73408 Yucca Avenue
54288	10/07/2026	Customer Refund	82.46	41.23	100-000-0000-2000	Refund Check 031609-000, 72711 Granite Lane
				41.23	100-000-0000-2000	Refund Check 031609-000, 72711 Granite Lane
54290	10/07/2026	Customer Refund	78.84	39.42	100-000-0000-2000	Refund Check 029725-000, 7620 Bedouin Avenue
				39.42	100-000-0000-2000	Refund Check 029725-000, 7620 Bedouin Avenue
54292	10/07/2026	Customer Refund	175.00	87.50	100-000-0000-2000	Refund Check 031068-000, 73028 Sunnyvale Drive
				87.50	100-000-0000-2000	Refund Check 031068-000, 73028 Sunnyvale Drive
54294	10/07/2026	Customer Refund	163.39	81.70	100-000-0000-2000	Refund Check 032266-000, 7064 Eucalyptus Avenue
				81.69	100-000-0000-2000	Refund Check 032266-000, 7064 Eucalyptus Avenue
54296	10/07/2026	Customer Refund	31.07	15.53	100-000-0000-2000	Refund Check 013457-000, 5578 Daisy Avenue
				15.54	100-000-0000-2000	Refund Check 013457-000, 5578 Daisy Avenue
271490	10/07/2026	S.C.E.	42,835.72	22,465.26	100-110-0000-5201	Well TP-1
				1,508.49	100-120-0000-5201	Booster 11A, Booster 11B
				3,299.43	100-600-0000-5201	District Office
				81.58	100-110-0000-5201	Donnell Hill
				2,408.29	100-150-0000-5201	Treatment Plant
				29.65	100-110-0000-5201	Paymeter Michel's/Utah Trail
				1,752.93	100-110-0000-5201	Well 12
				3,895.38	100-110-0000-5201	Well 14
				1,976.41	100-110-0000-5201	Well 16
				5,418.30	100-110-0000-5201	Well 17
27150	10/07/2026	Satmodo LLC	164.26	164.26	100-600-0000-5203	Iridium 20 Monthly Minute Plan
54302	10/07/2026	Customer Refund	178.46	89.23	100-000-0000-2000	Refund Check 022942-001, 7389 Kellogg Avenue
				89.23	100-000-0000-2000	Refund Check 022942-001, 7389 Kellogg Avenue
54304	10/07/2026	Customer Refund	146.55	73.28	100-000-0000-2000	Refund Check 030048-003, 68423 Rainier Road
				73.27	100-000-0000-2000	Refund Check 030048-003, 68423 Rainier Road
190071	10/07/2026	Staples	612.97	59.59	100-600-0000-5301	Office Supplies
				116.31	100-600-0000-5301	Office Supplies

Twentynine Palms Water District

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				101.37	100-600-0000-5301	Office Supplies
				151.53	100-600-0000-5301	Office Supplies
				38.46	100-600-0000-5301	Office Supplies
				89.95	100-600-0000-5301	Office Supplies
				55.76	100-600-0000-5301	Office Supplies
27154	10/07/2026	Starting Line Advisory	7,396.68	7,396.68	100-600-0000-5401	Advisory Services September 2026
27155	10/07/2026	Bob Stephenson	250.00	250.00	100-610-0000-5350	Video Recording for board meeting on September 23, 2026
54312	10/07/2026	Customer Refund	174.17	87.08	100-000-0000-2000	Refund Check 032337-000, 71996 El Paseo Drive
				87.09	100-000-0000-2000	Refund Check 032337-000, 71996 El Paseo Drive
54314	10/07/2026	Customer Refund	83.72	41.86	100-000-0000-2000	Refund Check 008882-015, 6638 Bermuda Avenue
				41.86	100-000-0000-2000	Refund Check 008882-015, 6638 Bermuda Avenue
54316	10/07/2026	Underground Service Alert	178.34	65.99	100-130-0000-5406	California State Fee for Regulatory Costs
				112.35	100-130-0000-5406	48 TPW01 New Ticket Charges
81477	10/07/2026	Usa Blue Book	5,376.87	1,347.09	100-130-0000-5220	pocket pro inv01167598
				3,907.98	100-130-0000-5220	240 gpd 80 psi inv01164873
				121.80	100-130-0000-5220	jackets inv01175650
27160	10/07/2026	USPS	502.00	502.00	100-600-0000-5406	Annual Post Office Box Service Fee
54322	10/07/2026	Customer Refund	176.52	88.26	100-000-0000-2000	Refund Check 032947-001, 71824 Cove View Road
				88.26	100-000-0000-2000	Refund Check 032947-001, 71824 Cove View Road
54324	10/07/2026	Customer Refund	37.14	18.57	100-000-0000-2000	Refund Check 031011-034, 6583 Mesquite Springs
				18.57	100-000-0000-2000	Refund Check 031011-034, 6583 Mesquite Springs
27163	10/07/2026	Verizon Wireless	577.10	577.10	100-600-0000-5203	Telephone
27164	10/07/2026	WestAir Gases & Equipment, Inc.	449.90	449.90	100-130-0000-5406	invoice # 0012272082 exchange 2 acetylene and 2 oxygen bottles
54330	10/07/2026	Customer Refund	157.60	78.80	100-000-0000-2000	Refund Check 033082-000, 6344 Timothy Avenue
				78.80	100-000-0000-2000	Refund Check 033082-000, 6344 Timothy Avenue
54332	10/07/2026	Yorke Engineering, LLC	788.50	417.50	100-130-0000-5406	Assist with follow-up questions regarding ACF
				371.00	100-130-0000-5406	Reviewed purchasing combustion vehicles and compliance under ACF
27167	10/13/2026	Telecom Southwest LLC	501.30	501.30	100-600-0000-5406	Kenwood NX-1200 VHF Portable Radio. New Office Radio (Invoice#TP
27168	10/13/2026	Usa Blue Book	715.52	715.52	100-150-0000-5220	Remaining Balance for Gli Phd Sensor
27169	10/15/2026	Ted Jones Ford Inc	73,636.59	73,636.59	100-875-0000-6001	2025 Ford F350 4x4 with diesel 6.7, flatbed single cab, on the s
27170	10/21/2026	ACWA	21,535.00	21,535.00	100-600-0000-5303	2027 Annual Agency Dues
27171	10/21/2026	Albert A. Webb Associates	16,173.06	16,173.06	100-825-0000-6001	Construction Support Services for Booster Pump and Reservoir

Twentynine Palms Water District

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54344	10/21/2026	Customer Refund	71.70	35.85	100-000-0000-2000	Refund Check 032514-000, 73858 Valle Vista Road
				35.85	100-000-0000-2000	Refund Check 032514-000, 73858 Valle Vista Road
27173	10/21/2026	Ansafone Contact Centers	311.84	311.84	100-160-0000-5406	Answering Service
81522	10/21/2026	Jeff Arwick	2,635.00	1,060.00	100-850-0000-6001	plc upgrade phase 1 donnell plc and level transmitter connection
				530.00	100-110-0000-5406	repair light at 14 and timer switch at well 17 25115
				1,045.00	100-850-0000-6001	phase 2 plc/radio connect temp power 120vac-24vac power supply i
27175	10/21/2026	Avalon Urgent Care	70.00	70.00	100-130-0000-5406	Drug Screening
679400	10/21/2026	Banc of California	6,971.48	518.65	100-130-0000-5220	Charges
				134.68	100-130-0000-5220	Charges
				26.93	100-600-0000-5301	Charges
				17.39	100-130-0000-5220	Charges
				5.00	100-600-0000-5303	Charges
				1,410.00	100-600-0000-5350	Charges
				105.00	100-600-0000-5303	Charges
				147.00	100-600-0000-5303	Charges
				474.09	100-130-0000-5222	Charges
				44.99	100-600-0000-5301	Charges
				164.67	100-150-0000-5203	Charges
				288.66	100-600-0000-5303	Charges
				114.67	100-600-0000-5203	Charges
				56.00	100-600-0000-5301	Charges
				49.00	100-600-0000-5301	Charges
				16.15	100-600-0000-5303	Charges
				36.59	100-600-0000-5301	Charges
				15.00	100-600-0000-5303	Charges
				11.98	100-600-0000-5301	Charges
				39.99	100-600-0000-5303	Charges
				203.94	100-130-0000-5407	Charges
				205.23	100-130-0000-5220	Charges
				39.86	100-130-0000-5220	Charges
				(90.23)	100-600-0000-5408	Charges
				2,936.24	100-130-0000-5228	Charges

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81531	10/21/2026	Beck Oil Inc.	18,429.53	6,035.80	100-130-0000-5206	r99 dsl
				3,088.63	100-130-0000-5206	tax
				9,305.10	100-130-0000-5206	gas unleaded
54356	10/21/2026	Customer Refund	22.02	11.01	100-000-0000-2000	Refund Check 010809-000, 5775 Hall Lane
				11.01	100-000-0000-2000	Refund Check 010809-000, 5775 Hall Lane
54358	10/21/2026	Customer Refund	52.92	26.46	100-000-0000-2000	Refund Check 032486-000, 6293 Mojave Avenue
				26.46	100-000-0000-2000	Refund Check 032486-000, 6293 Mojave Avenue
27180	10/21/2026	Brenntag Pacific Inc.	9,459.59	9,459.59	100-150-0000-5220	Load Of Sodium Hydroxide 3527 Gallons NSF 60 Caustic
54362	10/21/2026	Burrtec Waste & Recycling Svcs	635.98	426.08	100-600-0000-5406	Hatch
				209.90	100-150-0000-5406	Plant
54364	10/21/2026	Customer Refund	174.59	87.29	100-000-0000-2000	Refund Check 031256-000, 71512 Sunflower Drive
				87.30	100-000-0000-2000	Refund Check 031256-000, 71512 Sunflower Drive
27183	10/21/2026	CA Special Dist. Assn.	10,148.00	10,148.00	100-600-0000-5303	2027 CSDA Membership Renewal
54368	10/21/2026	Customer Refund	141.30	70.65	100-000-0000-2000	Refund Check 031229-000, 7770 North Star Avenue
				70.65	100-000-0000-2000	Refund Check 031229-000, 7770 North Star Avenue
27185	10/21/2026	Clinical Lab of San Bern.	4,976.28	4,976.28	100-140-0000-5405	8/10/26-9/28/26
27186	10/21/2026	Shawn Collard SCElectric	900.00	900.00	100-150-0000-5406	4th quater checks inv528
27187	10/21/2026	Corebridge Financial, Inc.	300.00	300.00	100-600-0000-5406	401a Plan Document Fee
27188	10/21/2026	Cricket Scada LLC	2,100.00	2,100.00	100-850-0000-6001	phase 1 2 days removed well 11,15 panel inv 1900
163134	10/21/2026	Cyber Photo-Graphics	1,242.38	511.20	100-130-0000-5220	24 of the tpwd hats (6006)
				15.00	100-130-0000-5220	repeat set up for hats
				68.75	100-130-0000-5220	ups shipping and handling
				94.43	100-130-0000-5220	tax 8.75%
				528.00	100-130-0000-5220	24 of tpwd beanies (146R)
				25.00	100-130-0000-5220	set ups for beanies
54380	10/21/2026	Customer Refund	141.17	70.58	100-000-0000-2000	Refund Check 011184-010, 5984 La Buena Tierra
				70.59	100-000-0000-2000	Refund Check 011184-010, 5984 La Buena Tierra
135955	10/21/2026	Desert Ace Hardware	167.63	29.97	100-130-0000-5220	chn psg link 120' 30288/1
				11.51	100-130-0000-5220	invoice # 29993/1 pipe and fitting for sludge pump pipe repair w
				13.02	100-130-0000-5220	hose adapter 30122/1
				101.33	100-130-0000-5220	parts for transmitter fittiings 30118/1
				11.80	100-130-0000-5220	strips plstic blk 30196/1

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54384	10/21/2026	Customer Refund	35.74	17.87	100-000-0000-2000	Refund Check 029921-000, 6862 Manzanita Avenue
				17.87	100-000-0000-2000	Refund Check 029921-000, 6862 Manzanita Avenue
54386	10/21/2026	Customer Refund	75.28	37.64	100-000-0000-2000	Refund Check 032774-000, 73542 Joshua Drive
				37.64	100-000-0000-2000	Refund Check 032774-000, 73542 Joshua Drive
27194	10/21/2026	Customer Refund	168.55	168.55	100-130-0000-5226	Employee Reimbursement/Safety Boots/Galardo
54390	10/21/2026	Customer Refund	178.04	89.02	100-000-0000-2000	Refund Check 032220-000, 6663 Manzanita Avenue
				89.02	100-000-0000-2000	Refund Check 032220-000, 6663 Manzanita Avenue
54392	10/21/2026	Customer Refund	26.52	13.26	100-000-0000-2000	Refund Check 023565-004, 5633 Abronia Avenue
				13.26	100-000-0000-2000	Refund Check 023565-004, 5633 Abronia Avenue
27197	10/21/2026	Hi-Desert Metal & Gas Supply LLC	21.75	21.75	100-130-0000-5406	invoice# 1012-18 cylinder rental for argon from hi desert metal-
27198	10/21/2026	Interactive Controls, Inc.	2,432.33	2,432.33	100-850-0000-6001	visti for two days config phase 1 level transmitters milliage i
81597	10/21/2026	Kennedy/Jenks Consultants	6,380.80	1,678.30	100-600-0000-5406	On-Call Consulting Services
				4,132.50	100-800-0000-6001	Water Loss Audit & Urban Water Objective
				570.00	100-600-0000-5412	Grant Funding & Water Loss Reporting
54400	10/21/2026	Customer Refund	190.33	95.16	100-000-0000-2000	Refund Check 031548-000, 6698 Galleta Avenue
				95.17	100-000-0000-2000	Refund Check 031548-000, 6698 Galleta Avenue
54402	10/21/2026	Customer Refund	14.78	7.39	100-000-0000-2000	Refund Check 007466-538, 5395 Baileya Avenue
				7.39	100-000-0000-2000	Refund Check 007466-538, 5395 Baileya Avenue
54404	10/21/2026	Customer Refund	148.25	74.13	100-000-0000-2000	Refund Check 032442-002, 6583 Mesquite Springs
				74.12	100-000-0000-2000	Refund Check 032442-002, 6583 Mesquite Springs
27203	10/21/2026	Manufacturer's News, Inc	264.00	264.00	100-600-0000-5409	Advertising in Directory of California Manufacturers
54408	10/21/2026	Customer Refund	169.61	84.80	100-000-0000-2000	Refund Check 033150-000, 74591 Alta Loma Drive
				84.81	100-000-0000-2000	Refund Check 033150-000, 74591 Alta Loma Drive
54410	10/21/2026	Customer Refund	45.31	22.65	100-000-0000-2000	Refund Check 028192-000, 7512 Maude Adams Avenue
				22.66	100-000-0000-2000	Refund Check 028192-000, 7512 Maude Adams Avenue
54412	10/21/2026	Customer Refund	182.73	91.37	100-000-0000-2000	Refund Check 033065-000, 1128 Donovan Road
				91.36	100-000-0000-2000	Refund Check 033065-000, 1128 Donovan Road
54414	10/21/2026	Customer Refund	166.44	83.22	100-000-0000-2000	Refund Check 031037-000, 5555 Abronia Avenue
				83.22	100-000-0000-2000	Refund Check 031037-000, 5555 Abronia Avenue
54416	10/21/2026	Customer Refund	65.21	32.60	100-000-0000-2000	Refund Check 026534-003, 6352 Smoke Tree Avenue
				32.61	100-000-0000-2000	Refund Check 026534-003, 6352 Smoke Tree Avenue
27209	10/21/2026	MM Internet, Inc.	143.69	143.69	100-600-0000-5203	10/1/2026-11/1/2026 SIP Trunking & Fax to Email

Twentynine Palms Water District

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54420	10/21/2026	Customer Refund	49.64	24.82	100-000-0000-2000	Refund Check 009633-000, 5216 Verenda Avenue
				24.82	100-000-0000-2000	Refund Check 009633-000, 5216 Verenda Avenue
54422	10/21/2026	Customer Refund	190.33	95.16	100-000-0000-2000	Refund Check 033126-000, 4656 Flying H Road
				95.17	100-000-0000-2000	Refund Check 033126-000, 4656 Flying H Road
27212	10/21/2026	Napa Auto Parts	67.08	67.08	100-130-0000-5222	invoice # 549186 air hose fittings for dump truck #76
27213	10/21/2026	Norman's Doors, INC.	2,921.00	2,921.00	100-600-0000-5406	Door Installations
54428	10/21/2026	Customer Refund	71.69	35.85	100-000-0000-2000	Refund Check 029715-000, 69131 29 Palms Hwy.
				35.84	100-000-0000-2000	Refund Check 029715-000, 69131 29 Palms Hwy.
353795	10/21/2026	Orange County Winwater Works	11,230.98	2,899.52	100-000-0000-1499	PIPE COPPER 3/4 in K SOFT
				789.12	100-000-0000-1499	ANGLE METER 1 in CTS COMP
				62.50	100-000-0000-1499	NIPPLE BRASS 3/4 X CLOSE
				278.88	100-000-0000-1499	METER TAIL BRASS 3/4X2
				101.89	100-130-0000-5220	12" gasket
				760.16	100-000-0000-1499	CORP STOP 1 in MIP X CTS
				1,634.94	100-130-0000-5220	12" di flgxflg 45 dom
				225.09	100-000-0000-1499	ADAPTER BRASS 3/4 MIPxCTS
				824.93	100-130-0000-5220	12 macro cplg 12.70-13.80
				233.55	100-130-0000-5220	12+bolt kit zinc
				2,151.32	100-000-0000-1499	GATE VALVE 3/4 in
				997.65	100-130-0000-5220	12x6flgxpe 12.75 od spool cml/bare
				271.43	100-000-0000-1499	ADAPTER BRASS 1 in CTS X MIP
108864	10/21/2026	O'Reilly Automotive Inc.	235.47	109.78	100-130-0000-5222	invoice # 6188-254998 grease for machine #1
				34.45	100-130-0000-5222	invoice # 6188-254997 starting fluid and fuel system treatment f
				39.54	100-130-0000-5222	invoice # 6188-255252 windshield wiper blades for eq#10
				51.70	100-130-0000-5222	invoice # 6188-255444 windshield wiper blades truck #80
54434	10/21/2026	Customer Refund	141.61	70.80	100-000-0000-2000	Refund Check 032184-000, 5356 Baileya Avenue
				70.81	100-000-0000-2000	Refund Check 032184-000, 5356 Baileya Avenue
54436	10/21/2026	Customer Refund	58.72	29.36	100-000-0000-2000	Refund Check 031478-000, 74107 Pinon Drive
				29.36	100-000-0000-2000	Refund Check 031478-000, 74107 Pinon Drive
108876	10/21/2026	Prudential Overall Supply	916.16	108.54	100-130-0000-5253	Plant
				284.00	100-130-0000-5253	Hatch
				108.54	100-130-0000-5253	Plant

Twentynine Palms Water District

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				415.08	100-130-0000-5253	Hatch
27220	10/21/2026	Radar Environmental	796.50	796.50	100-130-0000-5406	invoice # 4000 pickup and disposal of coolant drum from radar en
54442	10/21/2026	Customer Refund	153.87	76.93	100-000-0000-2000	Refund Check 033088-000, 6223 Adobe Road
				76.94	100-000-0000-2000	Refund Check 033088-000, 6223 Adobe Road
27222	10/21/2026	Customer Refund	453.45	453.45	100-000-0000-2000	AR Refund
163338	10/21/2026	S.C.E.	14,433.58	55.15	100-120-0000-5201	Desert Heights Res & Hydro
				839.10	100-120-0000-5201	Booster H1N, Booster H2S
				1,743.57	100-120-0000-5201	Booster Two Mile Road
				985.47	100-110-0000-5201	Well 11
				2,732.82	100-110-0000-5201	Well 1
				8,077.47	100-120-0000-5201	Booster Lupine Ave
27224	10/21/2026	San Bernardino County	8.00	8.00	100-130-0000-5301	Monthly Assessor Parcel Map Revisions for October 2026
27225	10/21/2026	Susan L. Simmons	1,910.17	1,910.17	100-600-0000-5406	Janitorial Services
27226	10/21/2026	Spectrum Enterprise	1,235.00	1,235.00	100-600-0000-5203	La Luna
27227	10/21/2026	Springbrook Holding Company LLC	3,606.00	3,606.00	100-600-0000-5408	CivicPay Transaction Fee September 2026
54456	10/21/2026	Customer Refund	21.97	10.99	100-000-0000-2000	Refund Check 021104-002, 6602 Mesquite Avenue
				10.98	100-000-0000-2000	Refund Check 021104-002, 6602 Mesquite Avenue
381206	10/21/2026	Groundwater Recordation Program State Water Resources Control Board	700.00	50.00	100-110-0000-5303	Groundwater Recordation Fee ID G363209
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G361650
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G363477
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G363479
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G362884
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G362731
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G362460
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G362436
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G363478
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G361138
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G363828
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G363809
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G363037
				50.00	100-110-0000-5303	Groundwater Recordation Fee ID G361135
27230	10/21/2026	Terminix	243.00	243.00	100-600-0000-5406	Pest Control

Twentynine Palms Water District

Check Date Range: 10/1/2026 thru 10/31/2026

81693	10/21/2026	Usa Blue Book	2,245.38	829.70	100-150-0000-5220	3" ball valve inv01186720
				221.36	100-150-0000-5220	2" ball valve inv01183648
				1,194.32	100-150-0000-5220	tisab ricca 1 ppm ,10 ppm inv01176287
54464	10/21/2026	Customer Refund	113.89	34.95	100-000-0000-2000	Refund Check 029223-002, 6150 Mariposa Avenue
				78.94	100-000-0000-2000	Refund Check 029223-002, 6150 Mariposa Avenue
27233	10/21/2026	Customer Refund	160.00	160.00	100-130-0000-5226	Employee Reimbursement/Safety Boots/Wekenman
			Total	**$445,833.95**		

6

6.1

TWENTYNINE PALMS WATER DISTRICT
72401 Hatch Road/P. O. Box 1735
Twentynine Palms, CA 92277-1000
PHONE (760) 367-7546 FAX (760) 367-6612

TO: **Board of Directors**

FROM: **Mike Minatrea, Director of Operations**

DATE: **November 3, 2026**

SUBJECT: **Management Report**

A. The Operations and Maintenance Department performed the following tasks during the month of October 2026:

1. Responded to 101 Underground Service Alerts
2. Responded to and repaired
   a. 0 water main leaks
   b. 2 water meter leaks
   c. 1 service line leak
   d. 1 fire hydrant repair/maintenance
3. Installed 0 new services
4. Replaced 7 customer gate valves
5. Performed 7 leak audits
6. Painted 0 fire hydrants
7. Performed 4 customer pressure checks
8. Replaced 10 water meters
9. Tested and exercised emergency generators
10. Sounded wells for October
11. 0 water waste inquires reported

B. The following customer service tasks were performed:

1. 411 work orders were generated from reading meters
2. 59 work orders were generated from billing variance list
3. 197 work orders were generated for turn on or turn off
4. 426 termination notices were distributed
5. 49 non-pay turn offs were performed
6. 39 payment schedules have been granted
7. 2 payment schedules failed
8. 10 customer requests and 4 inquiries were logged and investigated

C. Valve and Hydrant Maintenance Update

	Valves Exercised (Began 1/26)	Dead Ends Flushed (Began 1/26)
Current Month	160	26
Year to Date	*1627	443

*Biennial cycle

Twentynine Palms Water District

Maintenance Report

FY 2026/27

	USA	Leak Audits	Fire Hydrant Painting	Shut Offs	Total Work Orders Completed	Valves Exercised	Customer's Valve Replaced	New Service	Entitlement Set	Main Line Leaks	Active Account	Prior Year	%Increase (Decrease)
July	68	7	0	48	486	122	2	0	0	0			
August	51	8	40	39	691	198	3	1	1	0	7,726	7,779	(0.68)
Sept.	56	5	0	40	531	90	2	0	0	0			
October	101	7	0	49	667	160	7	0	0	0	N/A	N/A	
Nov.													
Dec.												7,758	
Jan.													
Feb.											N/A	N/A	
March													
April												7,812	
May													
June											N/A	N/A	
Totals	**276**	**27**	**40**	**176**	**2375**	**570**	**14**	**1**	**1**	**0**			

Total Connections in District **ct=** **8,438**
(Meters in Ground)
Total Entitlements in District **ct=** **409**

6.2

TWENTYNINE PALMS WATER DISTRICT
72401 Hatch Road/P. O. Box 1735
Twentynine Palms, CA 92277-1000
PHONE (760) 367-7546 FAX (760) 367-6612

TO: **Board of Directors**

FROM: **Mike Minatrea, Director of Operations**

DATE: **November 9, 2026**

SUBJECT: **Management Report**

1. ENGINEERING

A. No items to report.

2. WATER QUALITY

A. Chlorine Levels: Average levels maintained in the storage and distribution system ranged from a low of 0.12 mg/L to a high of .67 mg/L. Chlorination point (the point where chlorine is introduced into the distribution system) averages ranged from 0.08 mg/L to 2.20 mg/L.

B. Bacteria Samples: A total of 40 routine bacteria samples were collected at test points for the storage and distribution system during this past month. In addition 15 special bacteria samples were collected. All routine and special samples indicated ABSENT for Colilert.

C. Fluoride Samples: A total of 15 fluoride samples were collected at established test points for the storage and distribution system, and 16 fluoride samples were taken from potable water production wells. Fluoride levels in the distribution system ranged from a low of 1.1 mg/L to a high of 1.5 mg/L. Fluoride measurements collected at the wells ranged from a low of 0.33 to a high of 1.7 mg/L.

D. General Physical: A total of 11 general physical samples were collected from established locations as a part of routine testing requirements. Levels reported for color are <3.0, 1 for threshold odor and ND-0.15 for turbidity.

TWENTYNINE PALMS WATER DISTRICT

Water Production Report

FY 2026/2027

Groundwater Source								
	Mesquite Springs Basin	Fortynine Palms Basin	Eastern Basin	Indian Cove Basin	Total Produced	Total Prior Yr	%Increase Decrease prior year	%Increase Decrease from 2013
July	150.754	80.362	16.825	7.096	255.037	250.127	**1.96%**	**-17.71%**
August	149.563	71.180	17.681	11.877	250.301	252.250	**-0.77%**	**-14.35%**
Sept.	134.801	62.520	16.298	5.991	219.610	207.014	**6.08%**	**-10.28%**
October	132.942	44.763	9.194	2.649	189.548	196.199	**-3.39%**	**-12.20%**
Nov.								
Dec.								
Jan.								
Feb.								
March								
April								
May								
June								
Totals	**568.06**	**258.825**	**59.998**	**27.613**	**914.496**	**905.590**	0.98%	

Production Totals Expressed in Acre Feet

NOTE: Year to Date Mesquite Springs Basin regeneration production of **0.059** acre feet = **0.01%**

6.3

September 2026
Financial Reporting



Preliminary Results – Subject to Change

(Unaudited)

Prepared by



**No assurance is provided on the financial statements. The financial statements do not include a statement of cash flows. Substantially all disclosures required by accounting principles generally accepted in the United States are not included.*

Twentynine Palms Water District
Cash & Investments
As of September 30, 2026
(Unaudited)

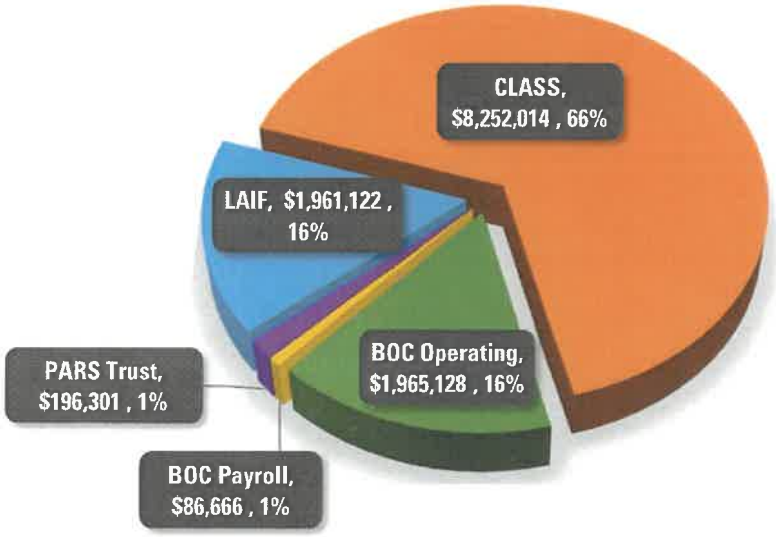
		Type	Est. Monthly Yield	Current Balance	Market Value
1	**District Cash & Investments**				
2	**Unrestricted**				
3	Local Agency Investment Fund (LAIF)[1]	Investment	3.908%	$ 217,977	$ 216,774
4	California CLASS Prime Fund[2]	Investment	3.818%	4,852,793	4,852,015
5	Bank of California - Operating	Checking		1,965,128	1,965,128
6	Bank of California - Payroll	Checking		86,666	86,666
7	**Total Unrestricted**			**7,122,563**	**7,120,583**
8	**Restricted**				
9	LAIF - Capital Funds for Primary Infrastructure	Investment	3.908%	1,525,890	1,517,474
10	LAIF - Capital Funds for Secondary Infrastructure	Investment	3.908%	217,255	216,057
11	CLASS - Capital Carry Over from PY Budget	Investment	3.818%	2,892,500	2,892,037
12	CLASS - Pension/OPEB	Investment	3.818%	506,721	506,640
13	PARS Post-Employment Benefits[3]	Trust	3.300%	196,301	196,301
14	**Total Restricted**			**5,338,667**	**5,328,508**
15	**Total District Cash & Investments**			**$ 12,461,230**	**$ 12,449,091**

[1] The LAIF Market Value factor is updated quarterly in September, December, March, and June.

[2] The CLASS Prime Fund Net Asset Value factor is updated monthly.

[3] 5-year annualized return shown for PARS

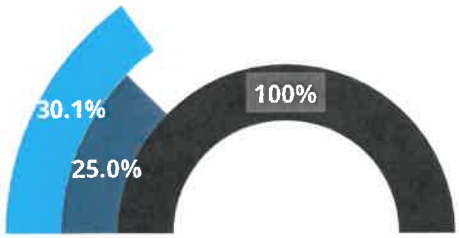
Cash & Investments Distribution



Twentynine Palms Water District
Summary Statement of Revenues & Expenses
For the Period Ending September 30, 2026
(Unaudited)

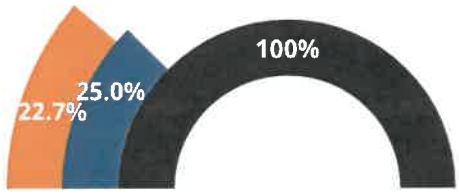
		Sep-26	YTD	Budget	YTD 25%
1	Operating Revenues	$ 843,242	$ 2,287,172	$ 7,541,300	30%
2	Non-Operating Revenues	96,505	330,013	1,149,500	29%
3	**Total Revenue Available to Fund Operations & Capital**	**939,747**	**2,617,185**	**8,690,800**	**30%**
4	Operating Expenses	526,829	1,386,602	6,220,800	22%
5	Non-Operating Expenses	60,900	91,350	593,900	15%
6	Total Debt Service	121,000	121,000	243,500	50%
7	**Total Expenses & Debt Service**	**708,729**	**1,598,951**	**7,058,200**	**23%**
8	**Net Revenues Before Capital Program**	**231,018**	**1,018,234**	**1,632,600**	**62%**
9	District Projects	(61,373)	(85,608)	(506,600)	17%
10	CIP Projects	(16,173)	(22,898)	(3,301,800)	1%
11	Repairs & Replacement	(11,103)	(23,701)	(884,400)	3%
12	Capital Outlay	(1,608)	(43,764)	(470,000)	9%
	Total Capital Program	**(90,257)**	**(175,971)**	**(5,162,800)**	**3%**
13	**Increase (Decrease) in Fund Balance**	**$ 140,761**	**$ 842,263**	**$ (3,530,200)**	

Revenue v. Budget



YTD Revenue	YTD Target	Total Budget
$2,617,185	$2,172,700	$8,690,800

Expense v. Budget



YTD Expense	YTD Target	Total Budget
$1,598,951	$1,764,550	$7,058,200

Twentynine Palms Water District
Detail Statement of Revenues & Expenses
For the Period Ending September 30, 2026
(Unaudited)

		Sep-26	YTD	Budget	YTD 25%
1	**Operating Revenues**				
2	Water Sales (Volumetric)	$ 637,632	$ 1,669,099	$ 4,941,900	34%
3	Readiness-To-Serve (Fixed)	176,409	527,972	2,261,300	23%
4	Other Operating Revenue	29,201	90,100	361,400	25%
5	Bad Debt Expense	-	-	(23,300)	0%
6	**Total Operating Revenues**	**843,242**	**2,287,172**	**7,541,300**	**30%**
7	**Non-Operating Revenues**				
8	Capital Impact Fees	4,294	15,028	75,000	20%
9	Water Availability Assessment	49,333	148,000	592,000	25%
10	Interest Revenue	21,187	92,010	257,900	36%
11	Tower Revenue	18,812	50,552	175,800	29%
12	Other Penalties	-	-	18,800	0%
13	Reimbursed Expenses	15	20,057	20,000	100%
14	Miscellaneous Non-Op Revenue	2,864	4,366	10,000	44%
15	**Total Non-Operating Revenues**	**96,505**	**330,013**	**1,149,500**	**29%**
16	**Total Revenues**	**939,747**	**2,617,185**	**8,690,800**	**30%**
17	**Operating Expenditures**				
18	**Source of Supply**				
19	Labor & Benefits	-	-	-	0%
20	Direct Expenses	40,277	129,194	559,300	23%
21	**Total Source of Supply**	**40,277**	**129,194**	**559,300**	**23%**
22	**Pumping**				
23	Labor & Benefits	-	-	-	0%
24	Direct Expenses	18,876	55,329	223,900	25%
25	**Total Pumping**	**18,876**	**55,329**	**223,900**	**25%**
26	**Transmission & Distribution**				
27	Labor & Benefits	135,350	312,646	1,244,000	25%
28	Direct Expenses	42,114	129,265	520,900	25%
29	**Total Transmission & Distribution**	**177,464**	**441,911**	**1,764,900**	**25%**
30	**Treatment Wells**				
31	Labor & Benefits	23,073	53,617	315,900	17%
32	Direct Expenses	4,976	10,269	54,000	19%
33	**Total Treatment Wells**	**28,049**	**63,885**	**369,900**	**17%**
34	**Treatment Facility**				
35	Labor & Benefits	33,315	80,335	302,700	27%
36	Direct Expenses	38,180	96,572	571,300	17%
37	**Total Treatment Facility**	**$ 71,494**	**$ 176,906**	**$ 874,000**	**20%**

Twentynine Palms Water District
Detail Statement of Revenues & Expenses
For the Period Ending September 30, 2026
(Unaudited)

		Sep-26	YTD	Budget	YTD 25%
38	**Customer Accounts**				
39	Labor & Benefits	$ 36,581	$ 87,995	$ 343,900	26%
40	Direct Expenses	6,175	19,947	84,300	24%
41	**Total Customer Accounts**	**42,756**	**107,943**	**428,200**	**25%**
42	**General & Administration**				
43	Labor & Benefits	63,420	160,768	686,700	23%
44	Outside Services	43,139	124,553	568,800	22%
45	Direct Expenses	34,051	101,402	494,700	20%
46	**Total General & Administration**	**140,610**	**386,723**	**1,750,200**	**22%**
47	**Payouts & Retiree Medical**				
48	Vacation / Sick Payouts	-	5,139	172,000	3%
49	Retiree Medical	3,407	10,052	47,900	21%
50	**Total Payouts & Retiree Medical**	**3,407**	**15,192**	**219,900**	**7%**
51	**Board of Directors**				
52	Director Fees	3,897	5,883	15,000	39%
53	Direct Expenses	-	3,634	15,500	23%
54	**Total Board of Directors**	**3,897**	**9,517**	**30,500**	**31%**
55	**Total Operating Expenditures**	**526,829**	**1,386,602**	**6,220,800**	**22%**
56	**Non-Operating Expenditures**				
57	**Debt Service**				
58	Debt Principal	112,131	112,131	227,500	49%
59	Interest Expense	8,869	8,869	16,000	55%
60	**Total Debt Service**	**121,000**	**121,000**	**243,500**	**50%**
61	CalPERS UAL Payment (Required)	60,900	91,350	368,100	25%
62	Pension & OPEB Trust Contributions	-	-	175,800	0%
63	Election Expense	-	-	50,000	0%
64	**Total Non-Operating Expenditures**	**181,900**	**212,350**	**837,400**	**25%**
65	**Total Expenditures**	**708,729**	**1,598,951**	**7,058,200**	**23%**
66	**Net Revenues Before Capital Program**	**$ 231,018**	**$ 1,018,234**	**$ 1,632,600**	**62%**
67	District Projects	(61,373)	(85,608)	(506,600)	
68	Capital Improvement Projects	(16,173)	(22,898)	(3,301,800)	
69	Repair, Rehabilitation, & Maintenance	(11,103)	(23,701)	(884,400)	
70	Capital Outlay	(1,608)	(43,764)	(470,000)	
71	**Increase/(Decrease) In Fund Balance**	**$ 140,761**	**$ 842,263**	**$ (3,530,200)**	

Twentynine Palms Water District
Capital Expenditures Detail
For the Period Ending September 30, 2026
(Unaudited)

		Budget FY 25/26	Current Year Expenditures	Remaining Budget
1	**District Projects**			
2	GW Mgmt. Plan & Urban Water Mgmt. Plan	$ 75,000	$ 10,048	64,953
3	Treatment Feasibility & Exploration Costs	40,000	-	40,000
4	Standard Drawings Update	6,000	75	5,925
5	Salt Nutrient Monitoring Wells/Sampling	45,600	1,583	44,017
6	Centralized Sewer Plan/Groundwater Analysis	35,000	3,323	31,678
7	Asset Management Plan	20,000	-	20,000
8	Campbell Reservoir Land Acquisition	20,000	-	20,000
9	Master Plan Updates	65,000	20,580	44,420
10	USGS Study/Feasibility Study	200,000	50,000	150,000
11	**Total District Projects**	**506,600**	**85,608**	**420,992**
12	**Capital Improvement Plan**			
13	Water Reservoir at Treatment Plant	3,201,800	16,173	3,185,627
14	Chromium VI and Flouride for Well 11B	100,000	6,725	93,275
15	**Capital Improvement Plan**	**3,301,800**	**22,898**	**3,278,902**
16	**Repairs, Rehabilitiation, & Maintenance**			
17	Emergency Repairs, Unspecified	100,000	-	100,000
18	Distribution SCADA System	135,000	15,584	119,416
19	Cactus Booster Station	15,000	-	15,000
20	Repiping/Distribution System Upgrades	135,000	-	135,000
21	Reservoir Recoating/Cathodic Protection	35,000	-	35,000
22	Soft Starts Wells/Boosters	50,000	-	50,000
23	Treated Water Reservoir Coating	100,000	-	100,000
24	Treatment Plant Concrete	29,400	-	29,400
25	Campbell Reservoir Road Paving/Seal Coating	30,000	-	30,000
26	Valve/CLA-Valve Replacement	100,000	8,117	91,883
27	Leer Booster (LHMP Generator)	5,000	-	5,000
28	Treatment Emergency Equipment	75,000	-	75,000
29	Reservoir Repainting	75,000	-	75,000
30	**Total Repairs & Maintenance**	**884,400**	**23,701**	**860,699**
31	**Capital Outlay**			
32	Vehicle/Equipment Replacements	125,000	38,508	86,492
33	Computer/Technology Replacements	60,000	5,255	54,745
34	Geographic Information System (GIS)	50,000	-	50,000
35	Administrative Building/Office Remodel	125,000	-	125,000
36	Energy Efficiency Projects	30,000	-	30,000
37	Electric Vehicle Station	30,000	-	30,000
38	Parking Lot Seal/Paving	50,000	-	50,000
39	**Total Capital Outlay**	**470,000**	**43,764**	**426,236**
40	**Total Capital Program**	**$ 5,162,800**	**$ 175,971**	**$ 4,986,829**

6.4

NO MATERIAL PROVIDED

7

CLOSED SESSION