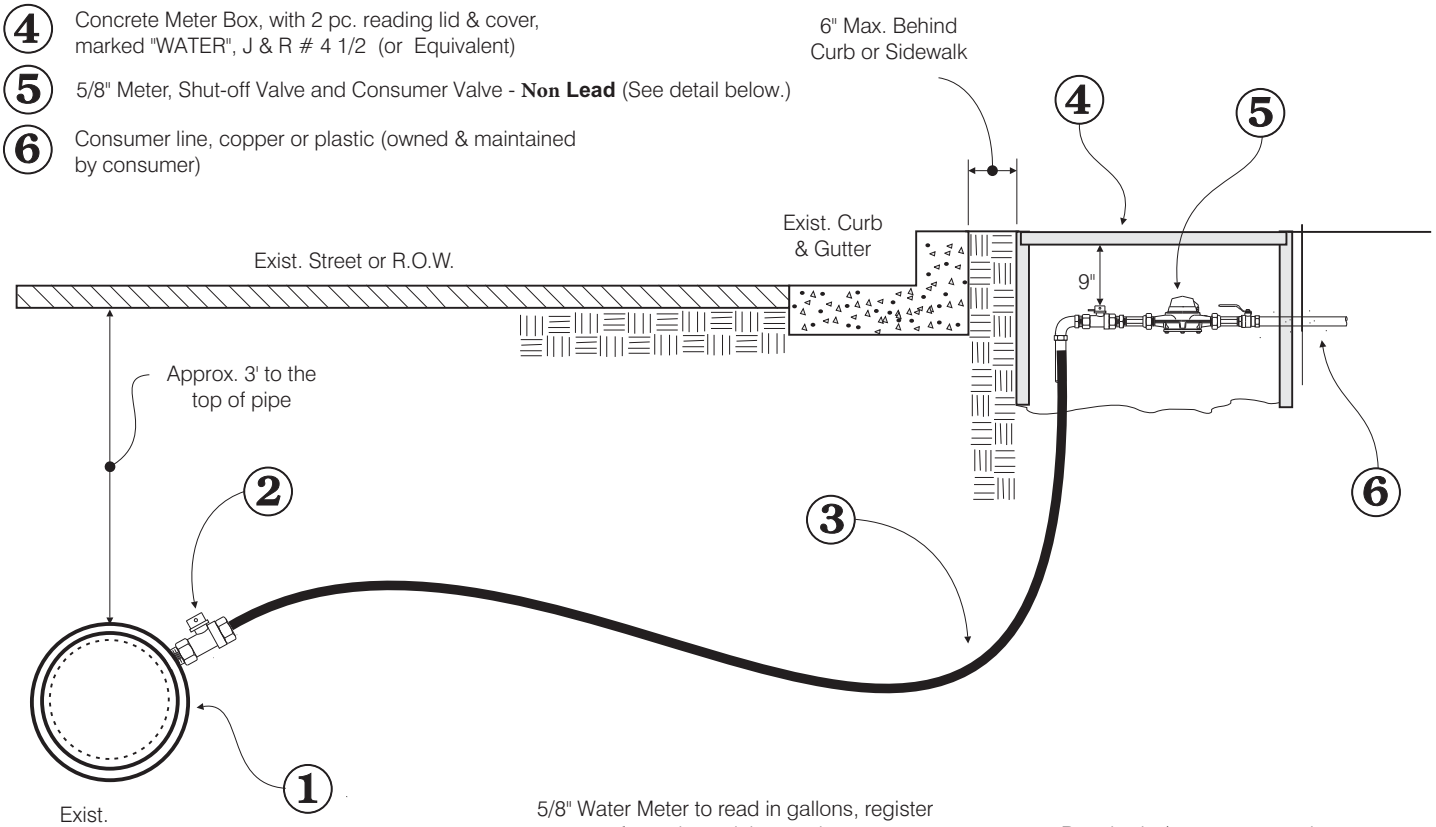
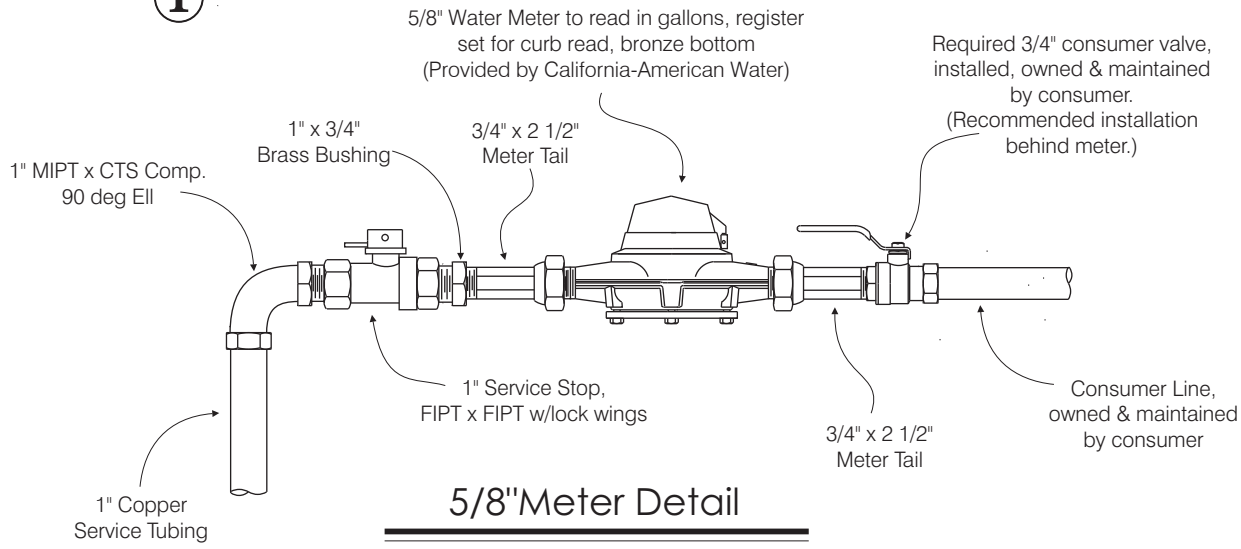
1. Bronze Service Saddle - **Non Lead**
   For C-900 PVC Pipe: Ford S91 Exact O.D. x 1" IPT Saddle (or Equivalent)
   For A.C. or C.I. Pipe: Ford 202B Dbl. Strap x 1" IPT Saddle (or Equivalent)
2. 1" Corp. Stop, MIPT x CTS Comp.- **Non Lead**
3. 1" Copper Tubing, Type "K" soft
4. Concrete Meter Box, with 2 pc. reading lid & cover, marked "WATER", J & R # 4 1/2 (or Equivalent)
5. 5/8" Meter, Shut-off Valve and Consumer Valve - **Non Lead** (See detail below.)
6. Consumer line, copper or plastic (owned & maintained by consumer)





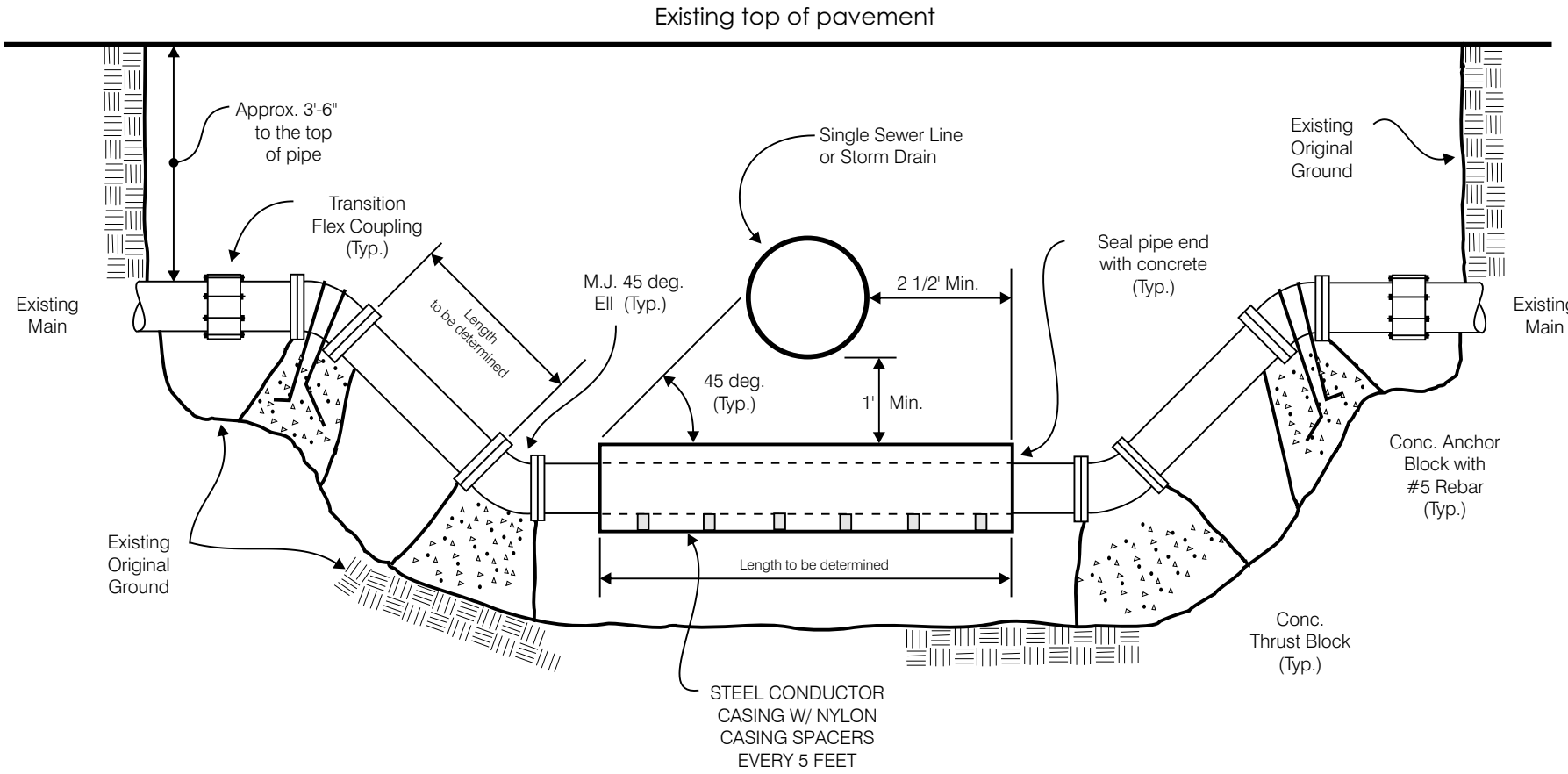
5/8"Meter Detail

No Scale

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____	Scale: No Scale	Date: 7/18/97
	Drawn By: Jacob Quick	Revised: 5/20/19
STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A 1" SERVICE INSTALLATION WITH 5/8" METER		Drwg. No. **COR-1**

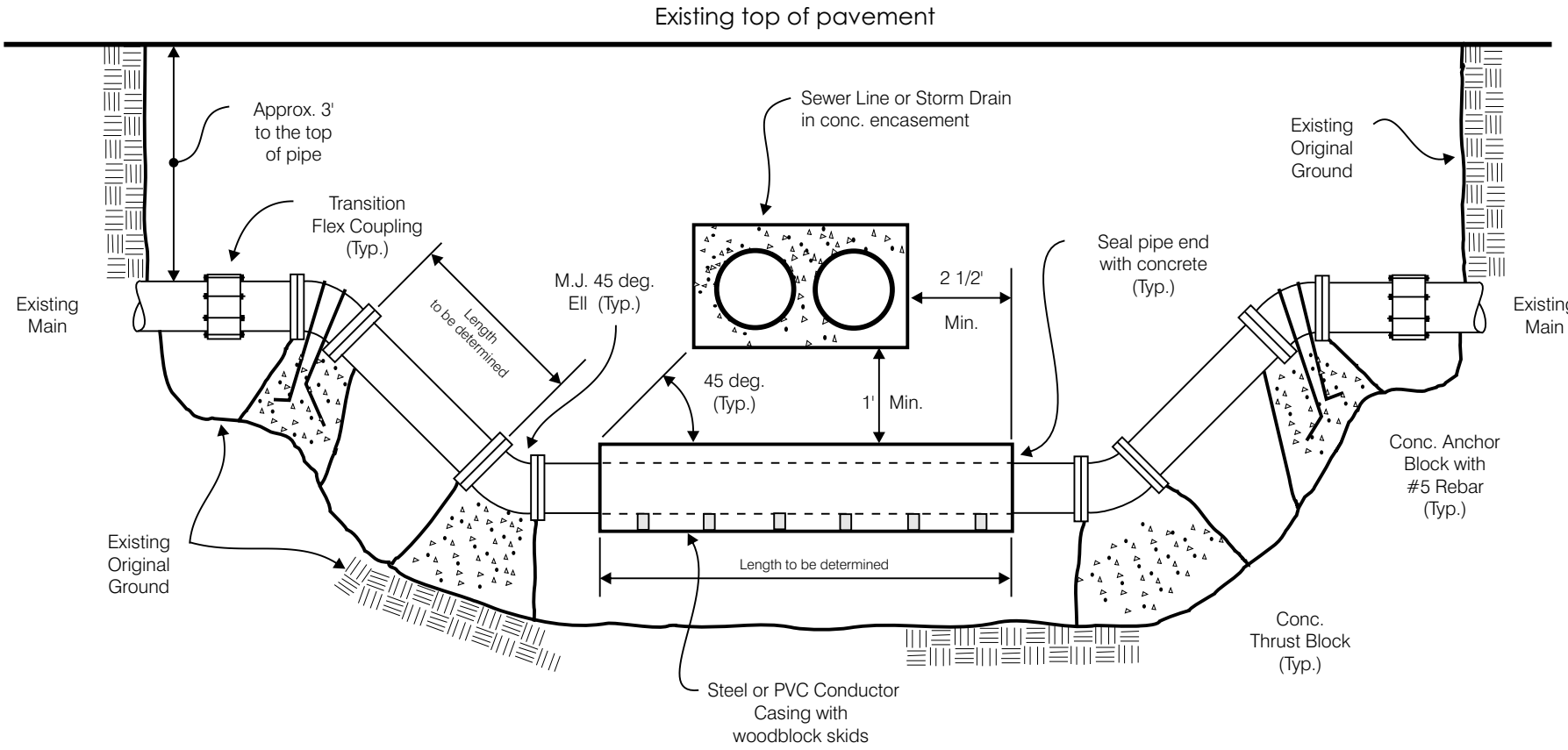


Note: This is a generic offset design. The dimensions will be calculated once the actual depth of the water main and other utilities are determined.

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____ Operations Superintendent	Scale: No Scale	Date: 10/2/97
	Drawn By: Jacob Quick	Revised: 5/20/19
Standard Drawing **Offset Fitting, Single Crossing**		Drwg. No. **COR-10**

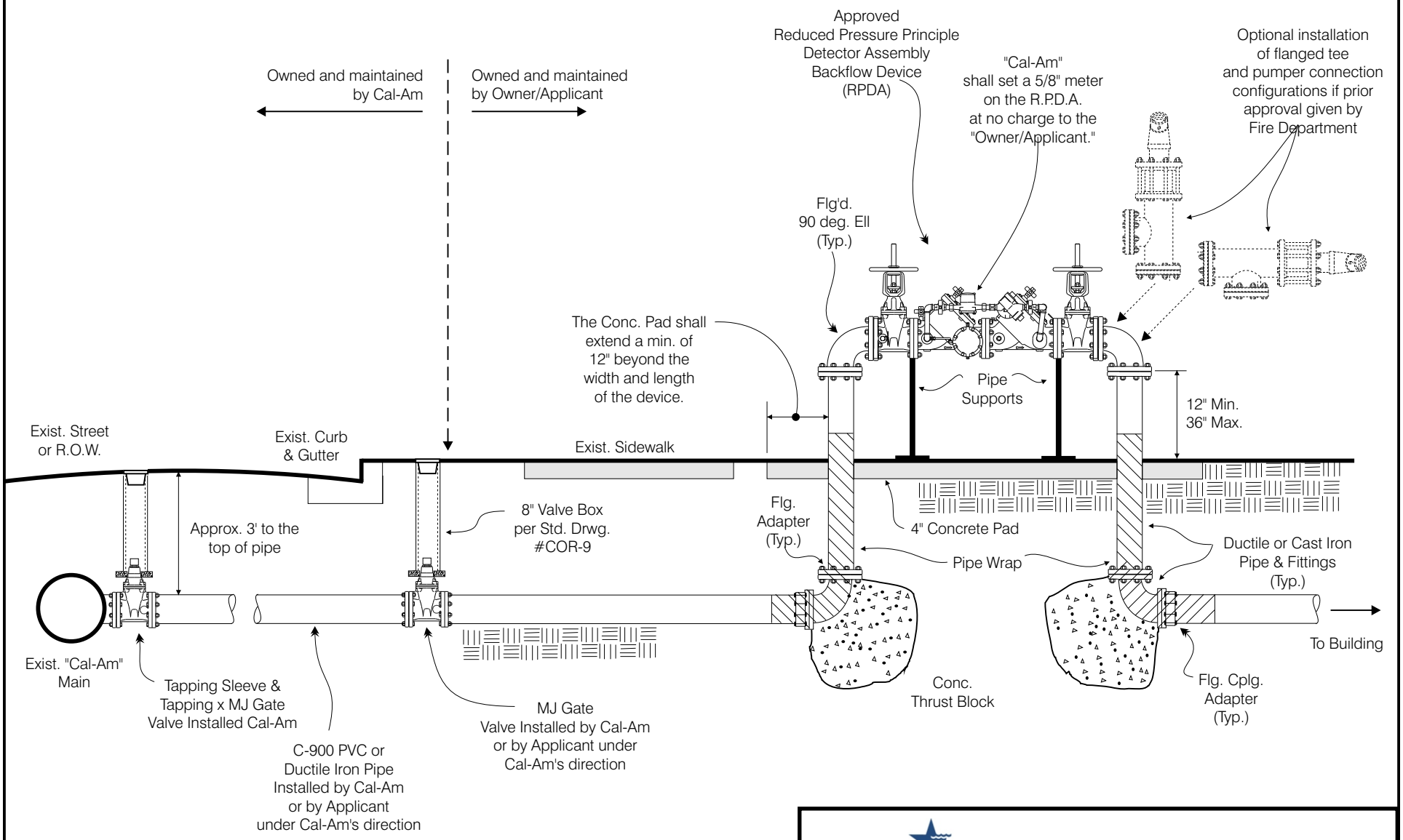


Note: This is a generic offset design. The dimensions will be calculated once the actual depth of the water main and other utilities are determined.

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____ Operations Superintendent	Scale: No Scale	Date: 10/2/97
	Drawn By: Doug Krupinski	Revised: 4/24/06
Standard Drawing **OFFSET FITTING, Multiple Pipe Crossing**		Drwg. No. **COR-11**



PRIVATE FIRE PROTECTION SERVICE & R.P.D.A. Installation

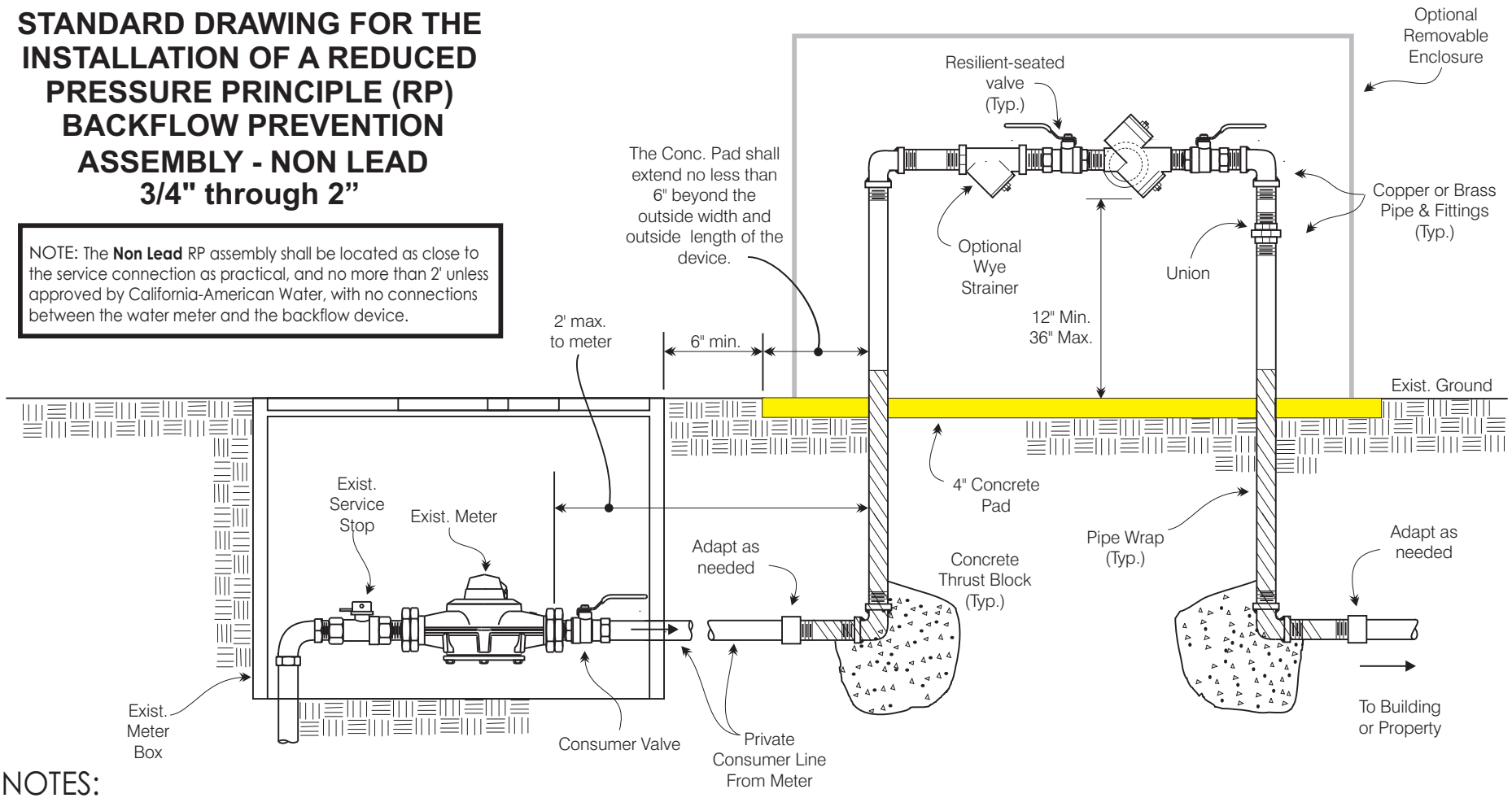
CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____	Scale: No Scale	Date: 7/18/97
	Drawn By: Doug Krupinski	Revised: 9/24/08
STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A REDUCED PRESSURE PRINCIPLE DETECTOR ASSEMBLY		Drwg. No. **COR-12**

STANDARD DRAWING FOR THE INSTALLATION OF A REDUCED PRESSURE PRINCIPLE (RP) BACKFLOW PREVENTION ASSEMBLY - NON LEAD 3/4" through 2”

NOTE: The **Non Lead** RP assembly shall be located as close to the service connection as practical, and no more than 2' unless approved by California-American Water, with no connections between the water meter and the backflow device.



NOTES:

1. All fittings, risers, unions, elbows and nipples shall be either copper or red brass.
2. Burried pipe & fittings shall be wrapped with 2" wide 8 mil plastic backed adhesive tape.
3. Plastic risers or fittings are not approved.
4. The device shall have 12" of clearance on all sides.
5. The backflow device shall be tested upon installation by a certified backflow device tester.
6. Adapt the inlet & outlet fittings as needed.
7. Consul with local building codes for the requirements of onsite thermal expansion control.
8. The assembly shall be installed horizontally & level unless approved for other orientation(s).
9. The concrete pad shall extend a min. of 6" beyond the outside width and outside length of the device.
10. Teflon tape should be used on all threaded connections.
11. The RP device shall never be installed in a pit or meter box.

Any inside installation shall require prior approval.

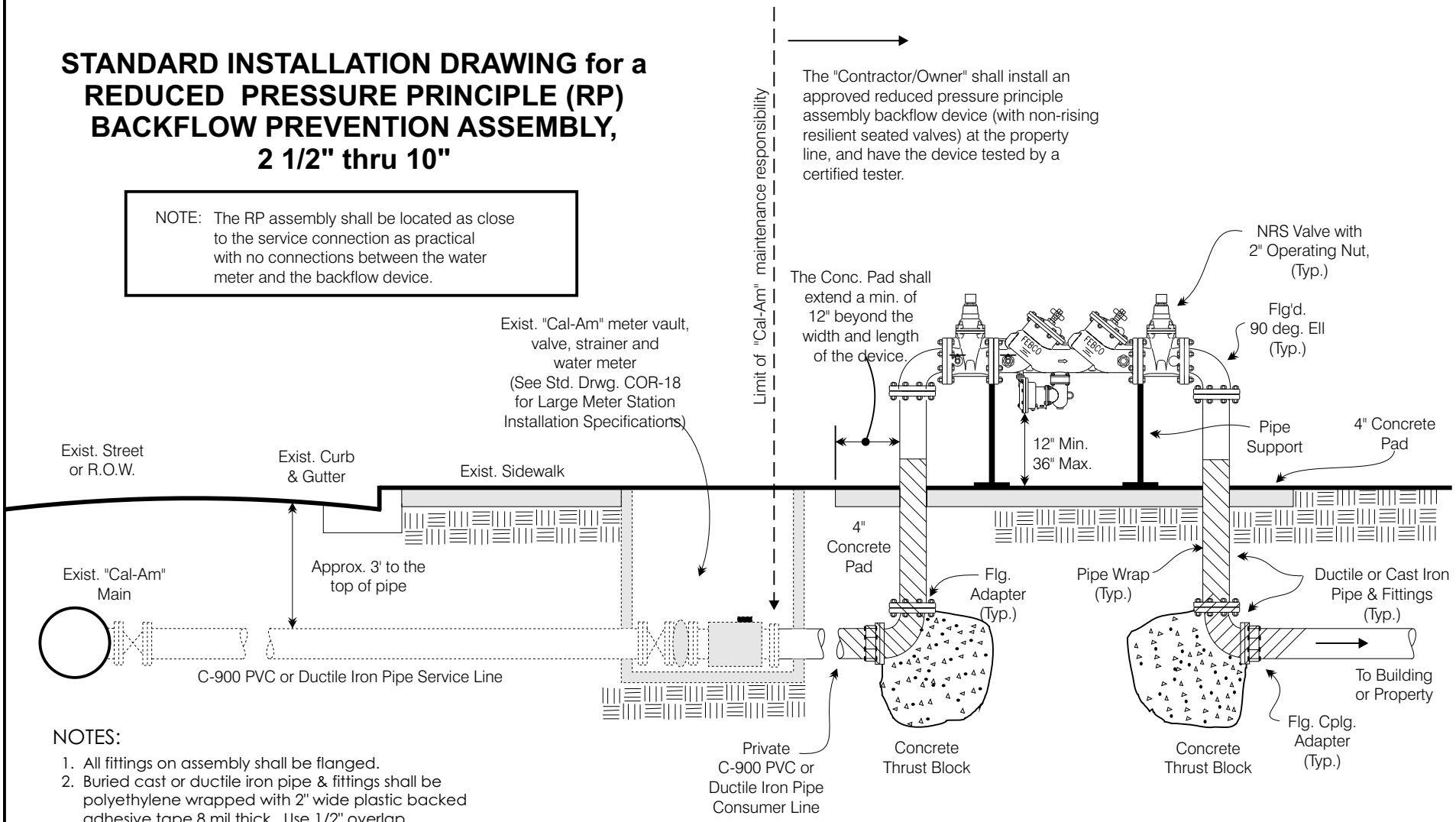
CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____	Scale: No Scale	Date: 7/18/97
	Drawn By: Jacob Quick	Revised: 5/2/19
STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A REDUCED PRESSURE PRINCIPLE ASSEMBLY - NON LEAD		Drwg. No. **COR-13**

STANDARD INSTALLATION DRAWING for a REDUCED PRESSURE PRINCIPLE (RP) BACKFLOW PREVENTION ASSEMBLY, 2 1/2" thru 10"

NOTE: The RP assembly shall be located as close to the service connection as practical with no connections between the water meter and the backflow device.



NOTES:

1. All fittings on assembly shall be flanged.
2. Buried cast or ductile iron pipe & fittings shall be polyethylene wrapped with 2" wide plastic backed adhesive tape 8 mil thick. Use 1/2" overlap.
3. Cast or ductile iron pipe & fittings shall be cement mortar lined.
4. All exposed cast or ductile iron shall be painted with one coat of primer and two coats of exterior enamel.
5. The concrete pad shall extend a min. of 12" beyond the width and length of the device.
6. The backflow device shall be tested upon installation by a certified backflow device tester.
7. Adapt the inlet & outlet fittings to the main as needed.
8. Consult with local building codes for the requirements of onsite thermal expansion control.
9. The assembly shall be installed horizontally & level unless approved for other orientation(s).

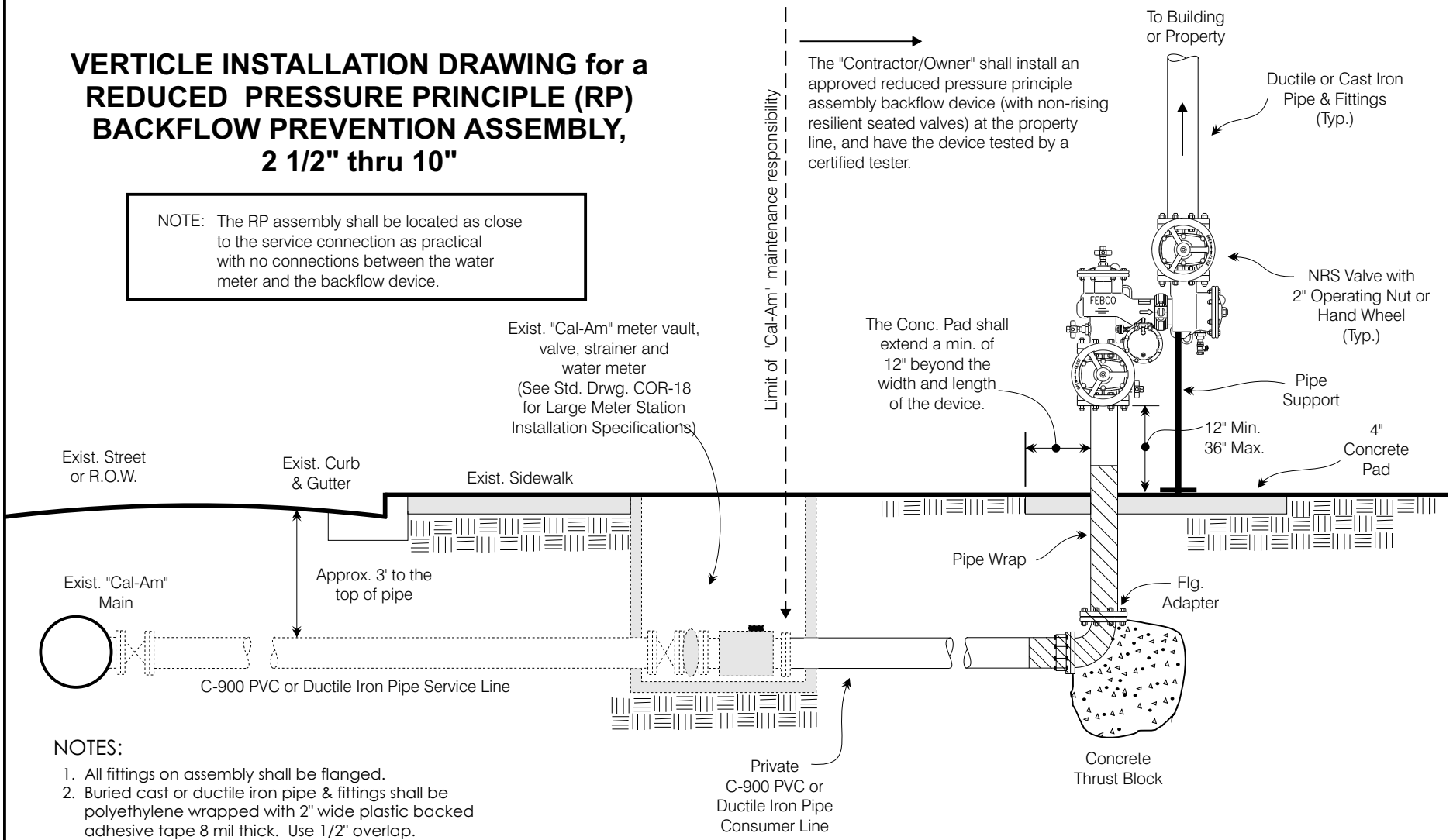
CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____	Scale: No Scale	Date: 7/18/97
	Drawn By: Doug Krupinski	Revised: 9/24/08
STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A REDUCED PRESSURE PRINCIPLE ASSEMBLY		Drwg. No. **COR-14**

VERTICLE INSTALLATION DRAWING for a REDUCED PRESSURE PRINCIPLE (RP) BACKFLOW PREVENTION ASSEMBLY, 2 1/2" thru 10"

NOTE: The RP assembly shall be located as close to the service connection as practical with no connections between the water meter and the backflow device.



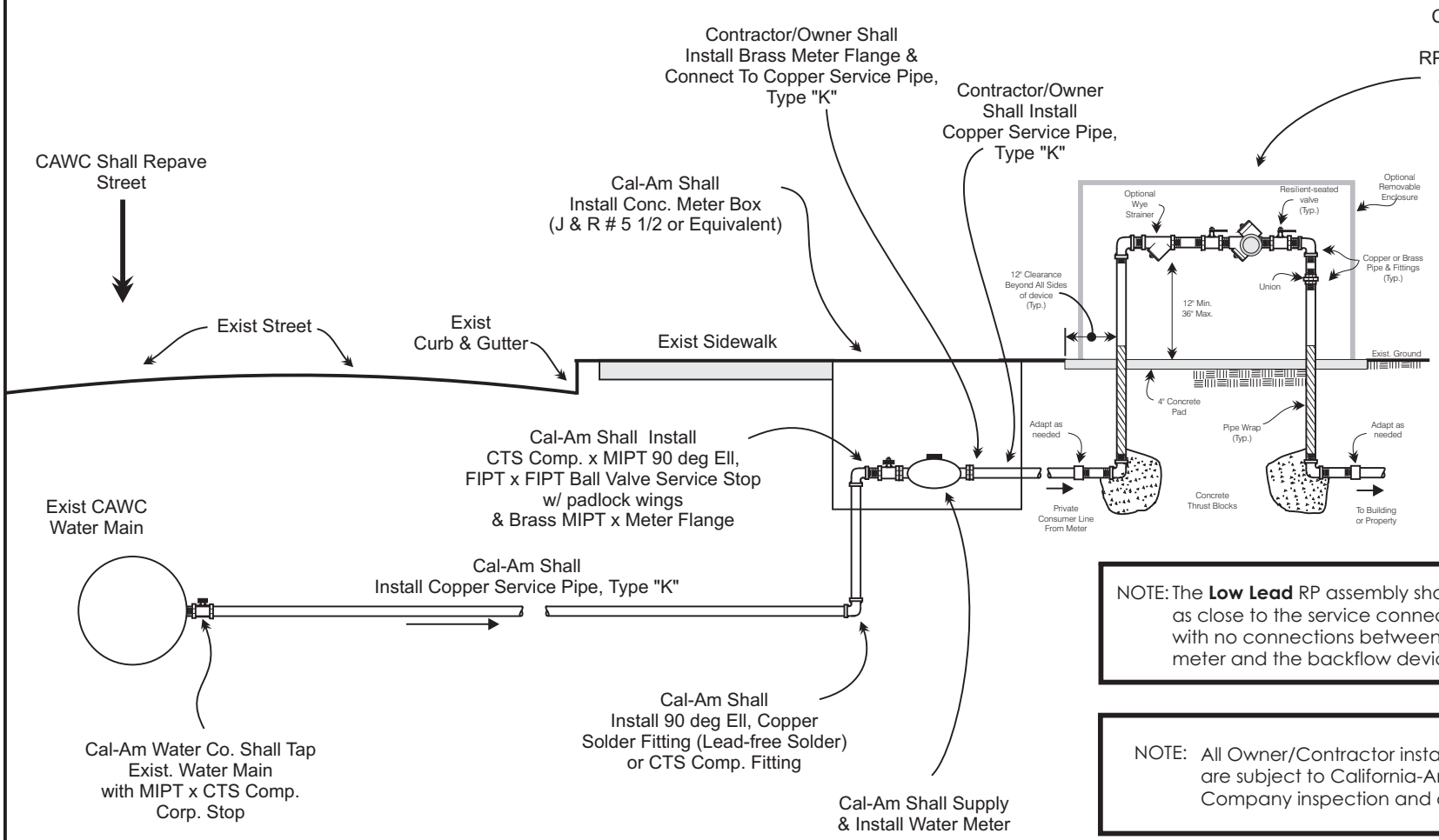
NOTES:

1. All fittings on assembly shall be flanged.
2. Buried cast or ductile iron pipe & fittings shall be polyethylene wrapped with 2" wide plastic backed adhesive tape 8 mil thick. Use 1/2" overlap.
3. Cast or ductile iron pipe & fittings shall be cement mortar lined.
4. All exposed cast or ductile iron shall be painted with one coat of primer and two coats of exterior enamel.
5. The concrete pad shall extend a min. of 12" beyond the width and length of the device.
6. The backflow device shall be tested upon installation by a certified backflow device tester.
7. Adapt the inlet & outlet fittings to the main as needed.
8. Consult with local building codes for the requirements of onsite thermal expansion control.
9. The assembly shall be installed horizontally & level unless approved for other orientation(s).

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____	Scale: No Scale	Date: 7/18/97
	Drawn By: Doug Krupinski	Revised: 9/24/08
STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A VERTICLE REDUCED PRESSURE PRINCIPLE ASSEMBLY		Drwg. No. **COR-15**



NOTE: The **Low Lead** RP assembly shall be located as close to the service connection as practical with no connections between the water meter and the backflow device.

NOTE: All Owner/Contractor installed facilities are subject to California-American Water Company inspection and acceptance.

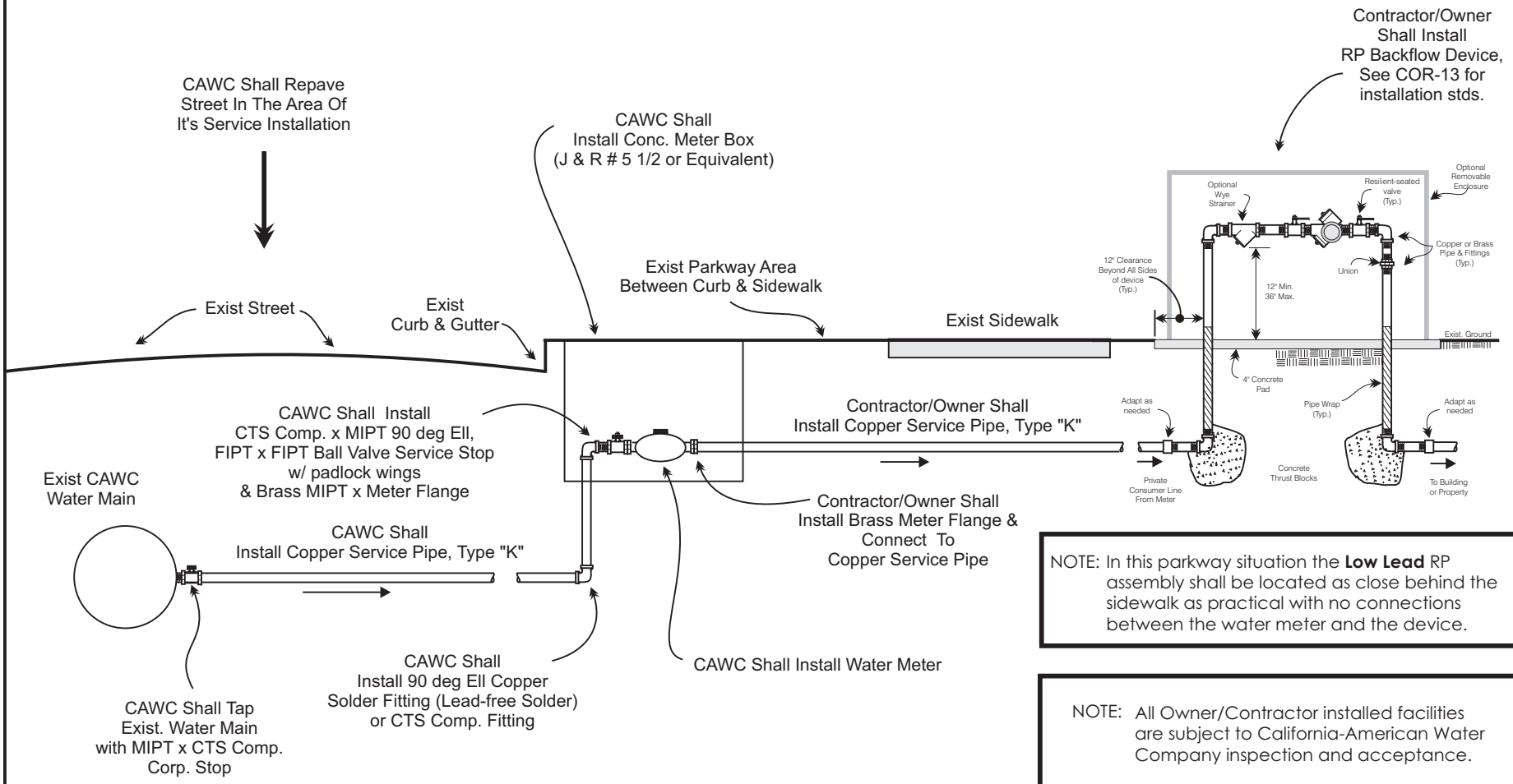
STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A 1 1/2" or 2" FIRE SERVICE, INCLUDING A LOW LEAD BACKFLOW PREVENTION ASSEMBLY

REGISTERED PROFESSIONAL ENGINEER
GARY PAUL SILVERMAN
No. C042969
Exp. _____
CIVIL
STATE OF CALIFORNIA

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____ Operations Superintendent	Scale: No Scale	Date: 10/2/97
	Drawn By: Doug Krupinski	Revised: 5/10/010
STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A LOW LEAD 1 1/2" or 2" FIRE SERVICE		Drwg. No. **COR-16**



NOTE: In this parkway situation the **Low Lead** RP assembly shall be located as close behind the sidewalk as practical with no connections between the water meter and the device.

NOTE: All Owner/Contractor installed facilities are subject to California-American Water Company inspection and acceptance.

STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A 1 1/2" or 2" FIRE SERVICE, INCLUDING LOW LEAD BACKFLOW PREVENTION ASSEMBLY

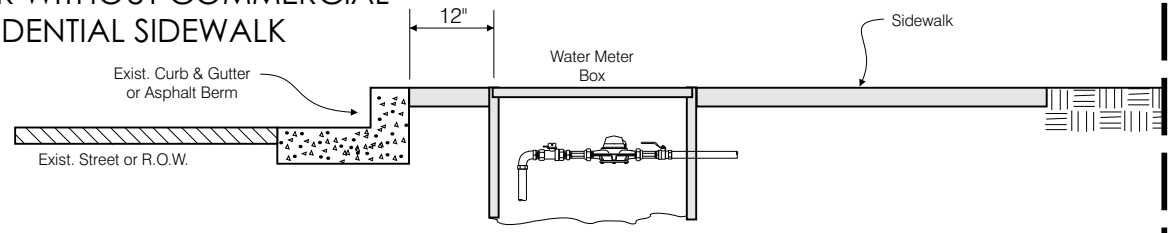
REGISTERED PROFESSIONAL ENGINEER
GARY PAUL SILVERMAN
No. C042969
Exp. _____
CIVIL
STATE OF CALIFORNIA

CALIFORNIA AMERICAN WATER

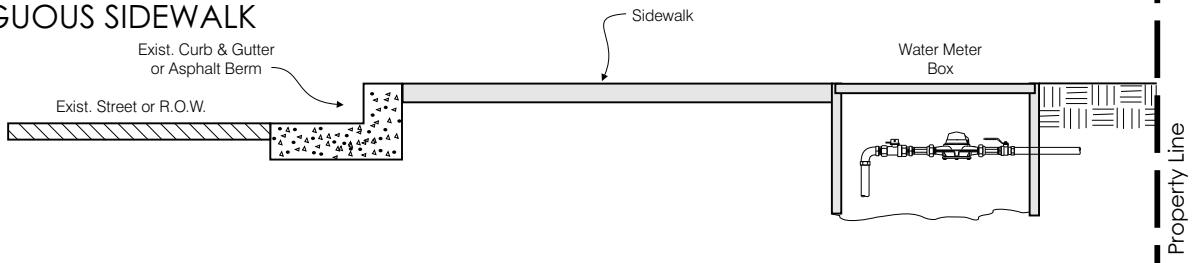
San Diego County Operations

Approved By: _____ Operations Superintendent	Scale: No Scale	Date: 10/2/97
	Drawn By: *DJK*	Revised: 5/10/10
STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A LOW LEAD 1-1/2" or 2" FIRE SERVICE		Drwg. No. **COR-17**

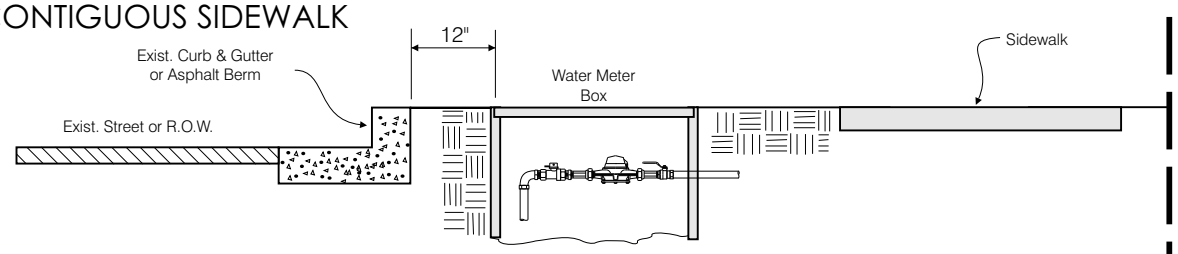
TYPE A1
WITH OR WITHOUT COMMERCIAL OR RESIDENTIAL SIDEWALK



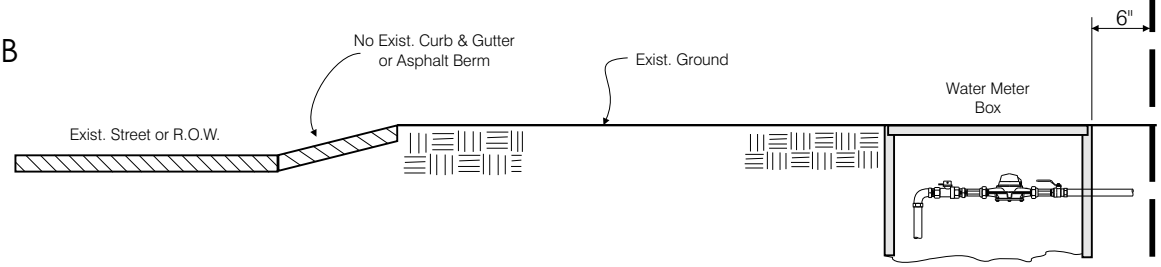
TYPE A2
CONTIGUOUS SIDEWALK



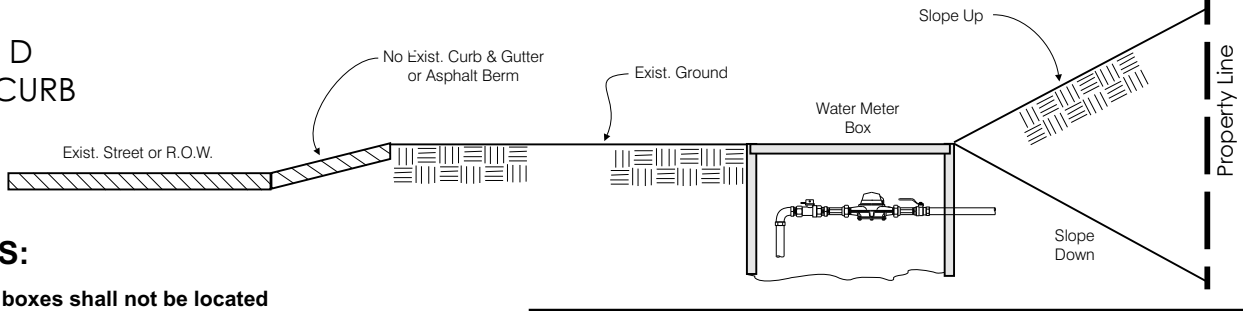
TYPE B
NON-CONTIGUOUS SIDEWALK



TYPE C
NO CURB



TYPE D
NO CURB



NOTES:

1. **Meter boxes shall not be located within driveways per S.D. Regional Std. Drwg. W-15**
2. **Meter boxes will be located in the following order of preference:**
   a) **In the parkway between curb and sidewalk.**
   b) **Where no parkway exists, within the public right-of-way immediately behind the sidewalk.**
   c) **At locations where extra wide sidewalks occupy the entire right-of-way, within the sidewalk at a point close to the curb.**
   d) **In unimproved areas, at a point convenient to the water company which is best protected from traffic.**
   e) **Where necessary, within the customer's property.**

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____ Operations Superintendent

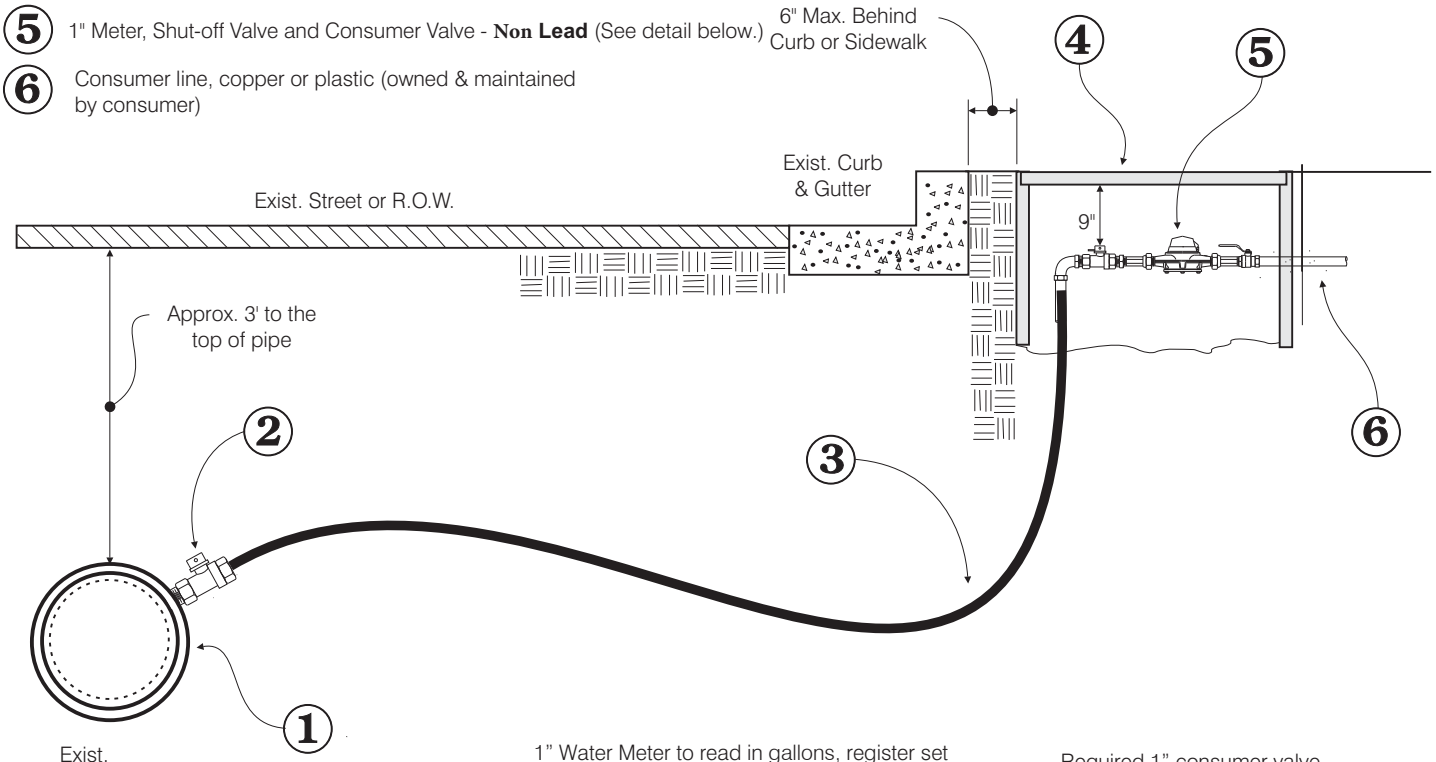
Scale: No Scale | Date: 10/2/97

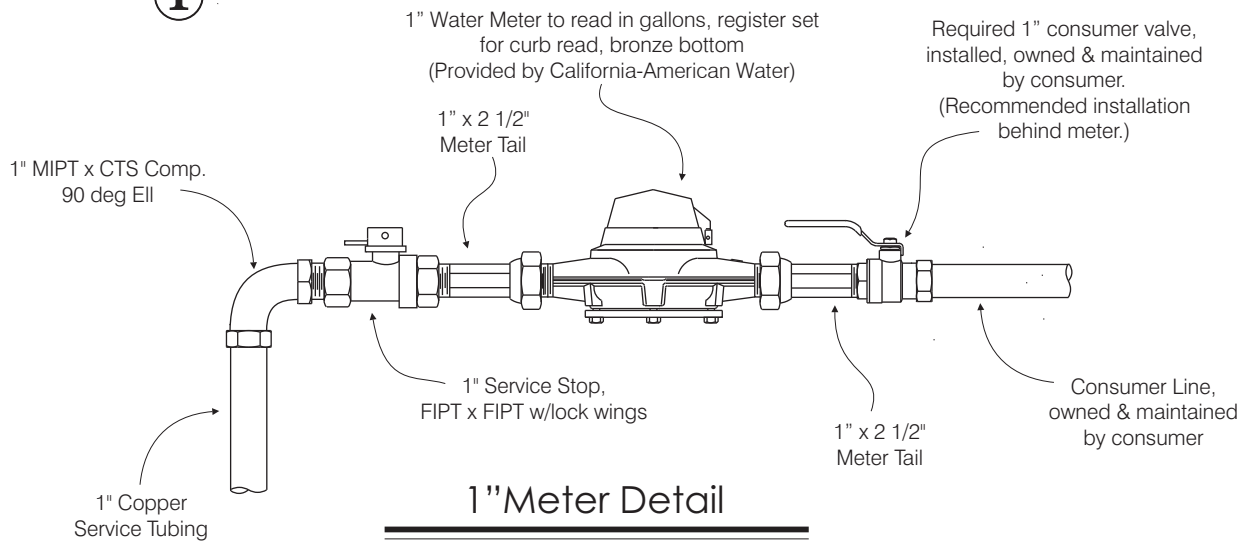
Drawn By: Doug Krupinski | Revised: 4/24/06

STANDARD DRAWING
WATER METER LOCATIONS

Drwg. No.
COR-18

1. Bronze Service Saddle - **Non Lead**
   For C-900 PVC Pipe: Ford S91 Exact O.D. x 1" IPT Saddle (or Equivalent)
   For A.C. or C.I. Pipe: Ford 202B Dbl. Strap x 1" IPT Saddle (or Equivalent)
2. 1" Corp. Stop, MIPT x CTS Comp. - **Non Lead**
3. 1" Copper Tubing, Type "K" soft
4. Concrete Meter Box, with 2 pc. reading lid & cover, marked "WATER", J & R # 4 1/2 (or Equivalent)
5. 1" Meter, Shut-off Valve and Consumer Valve - **Non Lead** (See detail below.)
6. Consumer line, copper or plastic (owned & maintained by consumer)





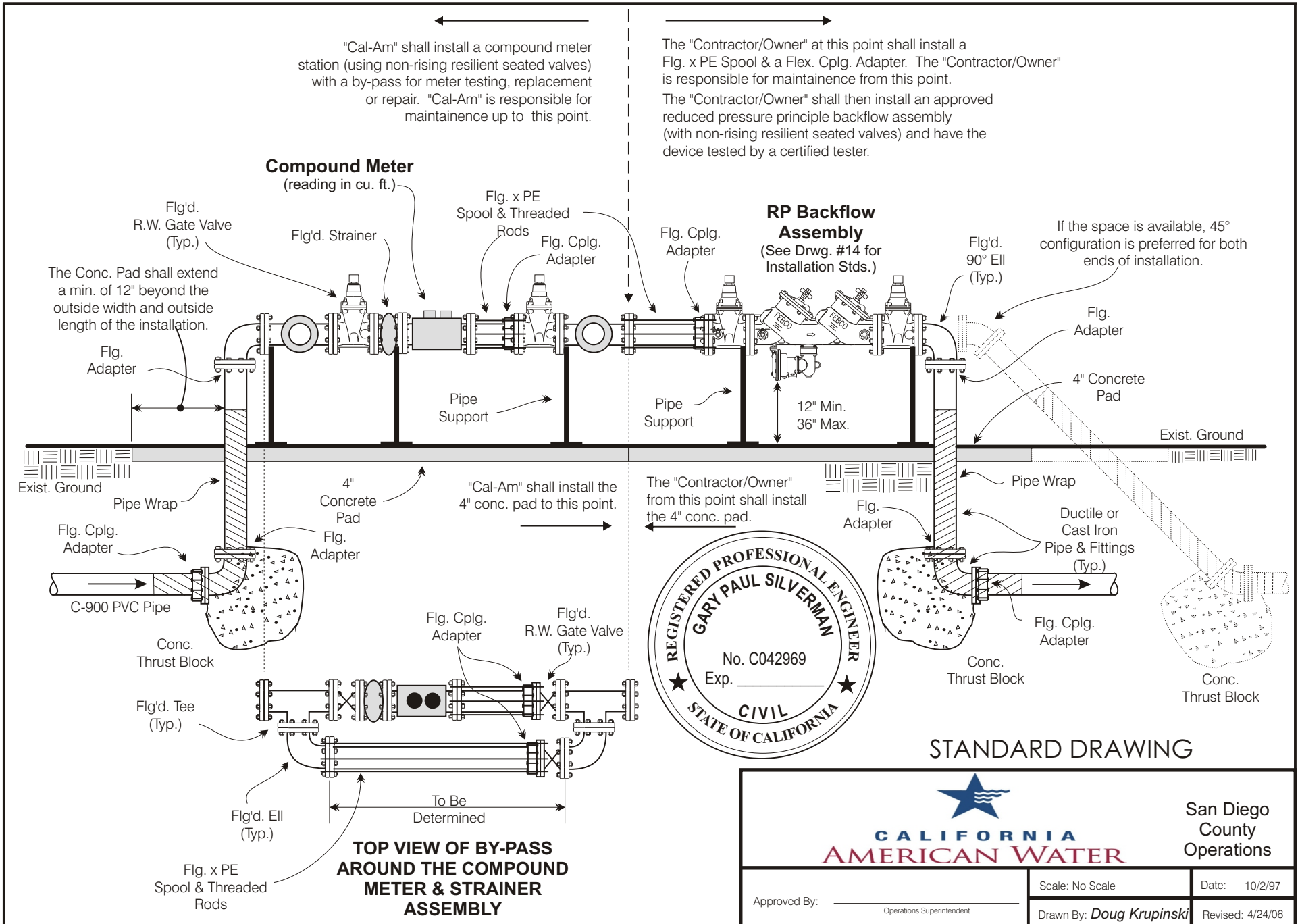
1"Meter Detail

No Scale

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____	Scale: No Scale	Date: 7/18/97
	Drawn By: Jacob Quick	Revised: 5/20/19
STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A 1" SERVICE INSTALLATION WITH 1" METER		Drwg. No. **COR-2**



STANDARD DRAWING

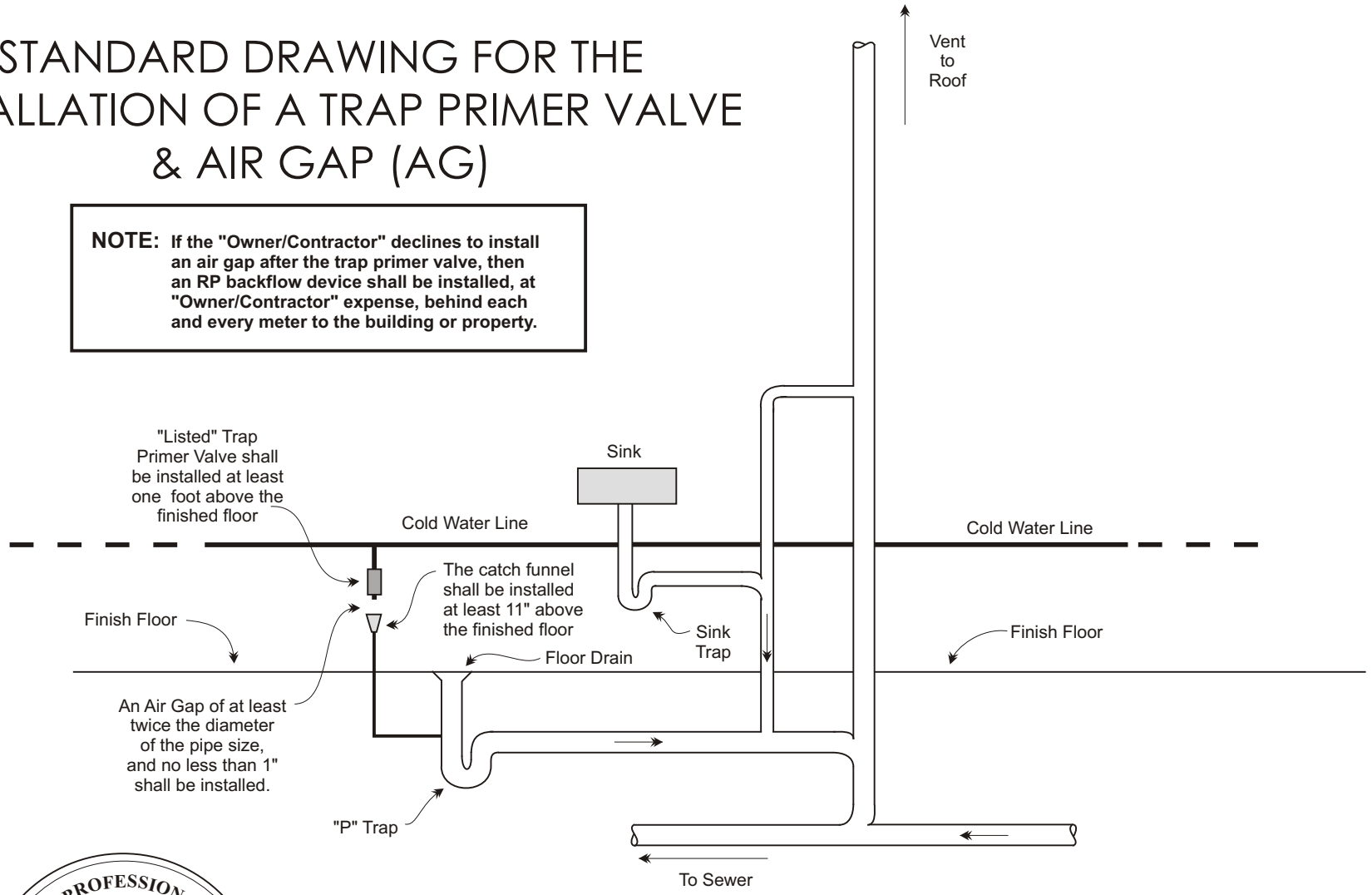
CALIFORNIA AMERICAN WATER

San Diego County Operations

Approved By: _____ Operations Superintendent	Scale: No Scale	Date: 10/2/97
	Drawn By: *Doug Krupinski*	Revised: 4/24/06
Large Meter Station Installation, Including RP Installation		Drwg. No. **COR-20**

STANDARD DRAWING FOR THE INSTALLATION OF A TRAP PRIMER VALVE & AIR GAP (AG)

NOTE: **If the "Owner/Contractor" declines to install an air gap after the trap primer valve, then an RP backflow device shall be installed, at "Owner/Contractor" expense, behind each and every meter to the building or property.**



REGISTERED PROFESSIONAL ENGINEER
GARY PAUL SILVERMAN
No. C042969
Exp. _____
CIVIL
STATE OF CALIFORNIA

CALIFORNIA AMERICAN WATER

San Diego County Operations

Approved By: _____ Operations Superintendent

Scale: No Scale | Date: 10/2/97

Drawn By: *Doug Krupinski* | Revised: 4/24/06

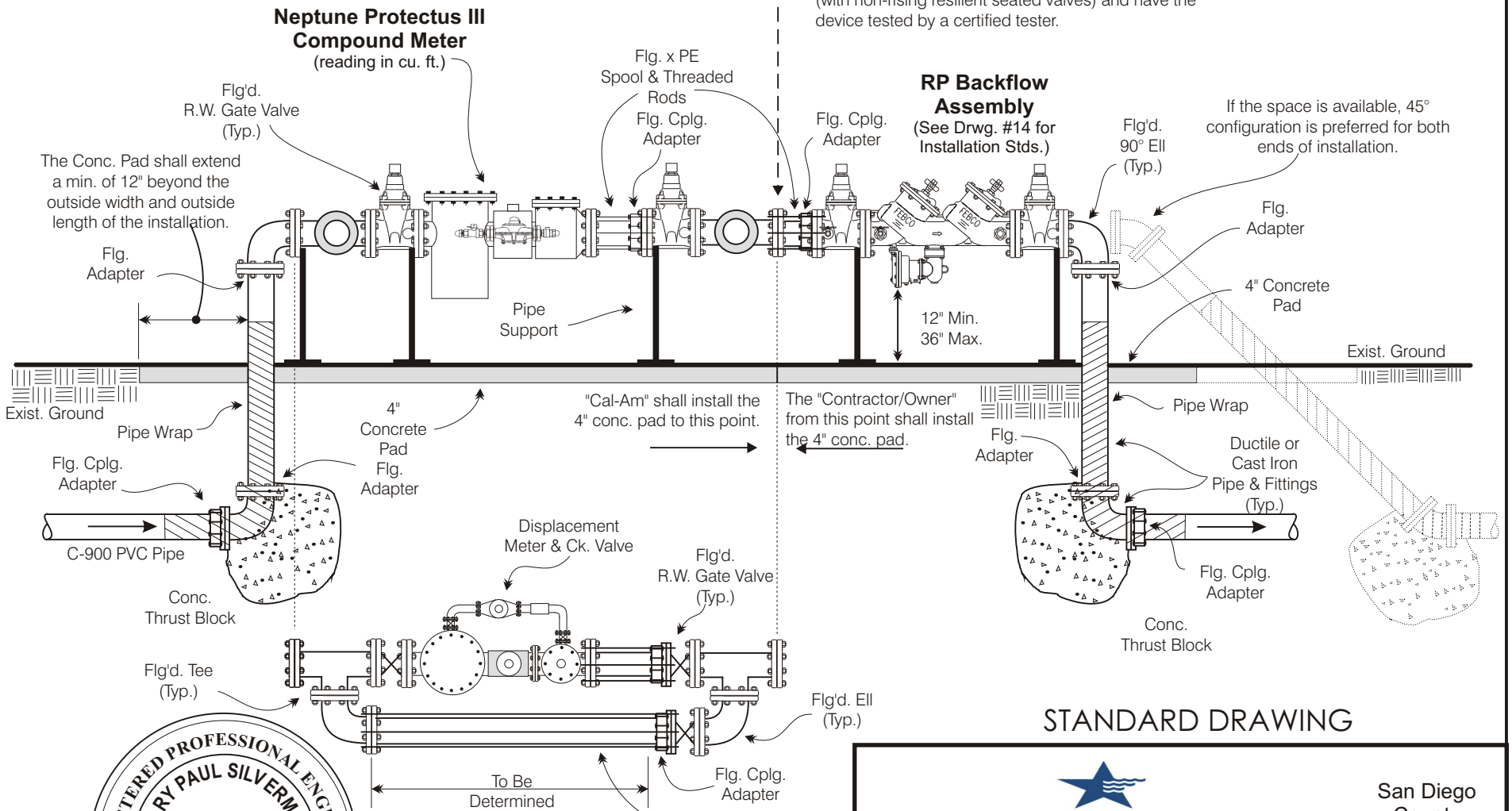
STANDARD SPECIFICATION FOR THE INSTALLATION OF A TRAP PRIMER VALVE & AIR GAP

Drwg. No. **COR-21**

"Cal-Am" shall install a compound meter station (using non-rising resilient seated valves) with a by-pass for meter testing, replacement or repair. "Cal-Am" is responsible for maintainence up to this point.

The "Contractor/Owner" at this point shall install a Flg. x PE Spool & a Flex. Cplg. Adapter. The "Contractor/Owner" is responsible for maintainence from this point.

The "Contractor/Owner" shall then install an approved reduced pressure principle backflow assembly (with non-rising resilient seated valves) and have the device tested by a certified tester.



TOP VIEW OF BY-PASS AROUND THE PROTECTUS METER & STRAINER ASSEMBLY

REGISTERED PROFESSIONAL ENGINEER
GARY PAUL SILVERMAN
No. C042969
Exp. _____
CIVIL
STATE OF CALIFORNIA

STANDARD DRAWING

CALIFORNIA AMERICAN WATER

San Diego County Operations

Approved By: _____ Operations Superintendent

Scale: No Scale

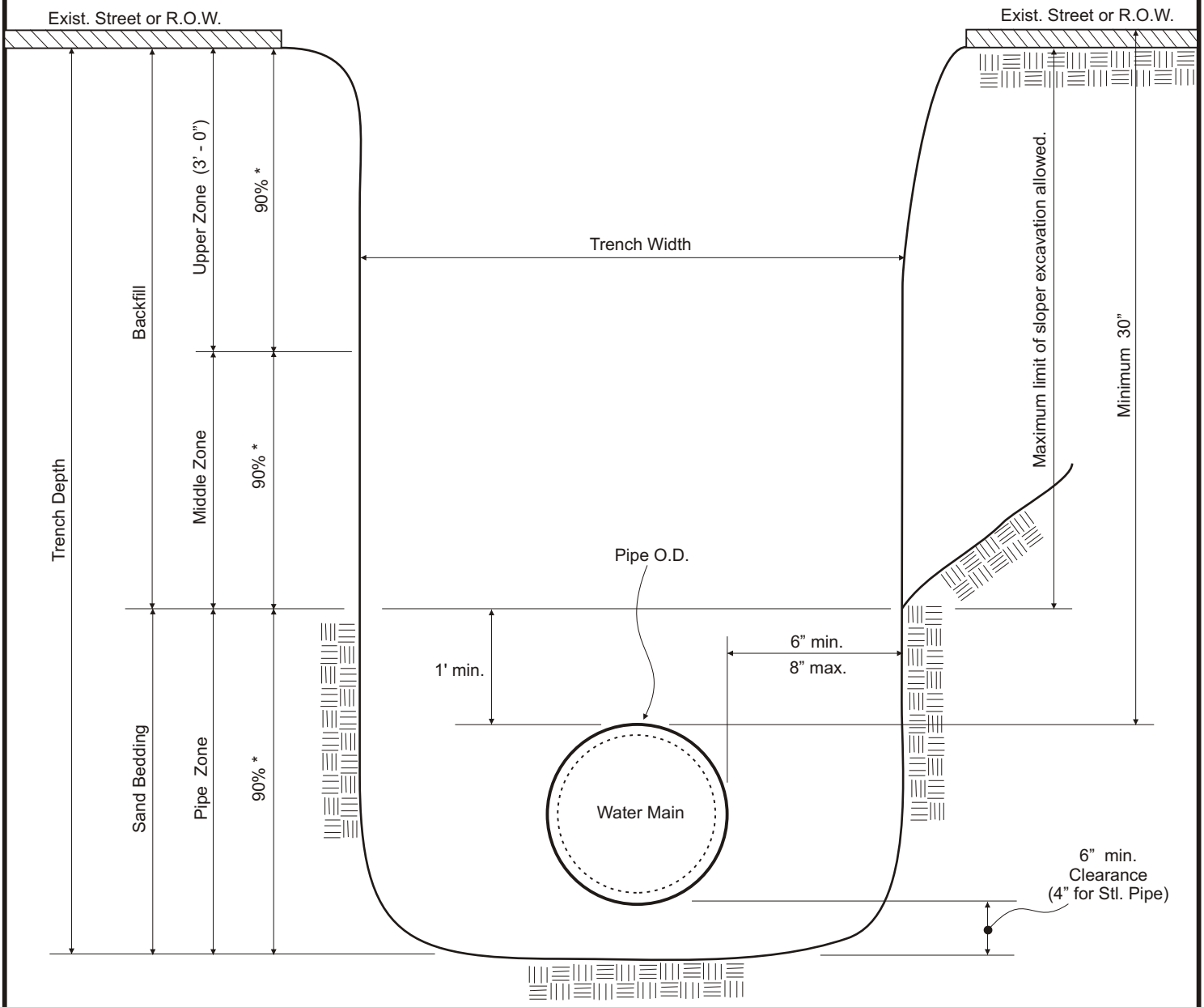
Date: 10/2/97

Drawn By: *Doug Krupinski*

Revised: 4/24/06

Large Protectus Meter Installation, Including RP Installation

Drwg. No. **COR-22**



SECTION

NOTE:

1. (*) indicates minimum relative compaction.
2. Bedding material shall be screened sand having a sand equivalent (SE) of not less than (50) and an expansion coefficient, when saturated with water, of not more than 0.5 of one percent (0.5%).
3. Water mains of nominal size 4" - 12" shall be of PVC C-900.
4. Water mains greater than 12" nominal size shall be of ductile iron.

CALIFORNIA AMERICAN WATER

San Diego County Operations

Approved By: _____ Operations Superintendent

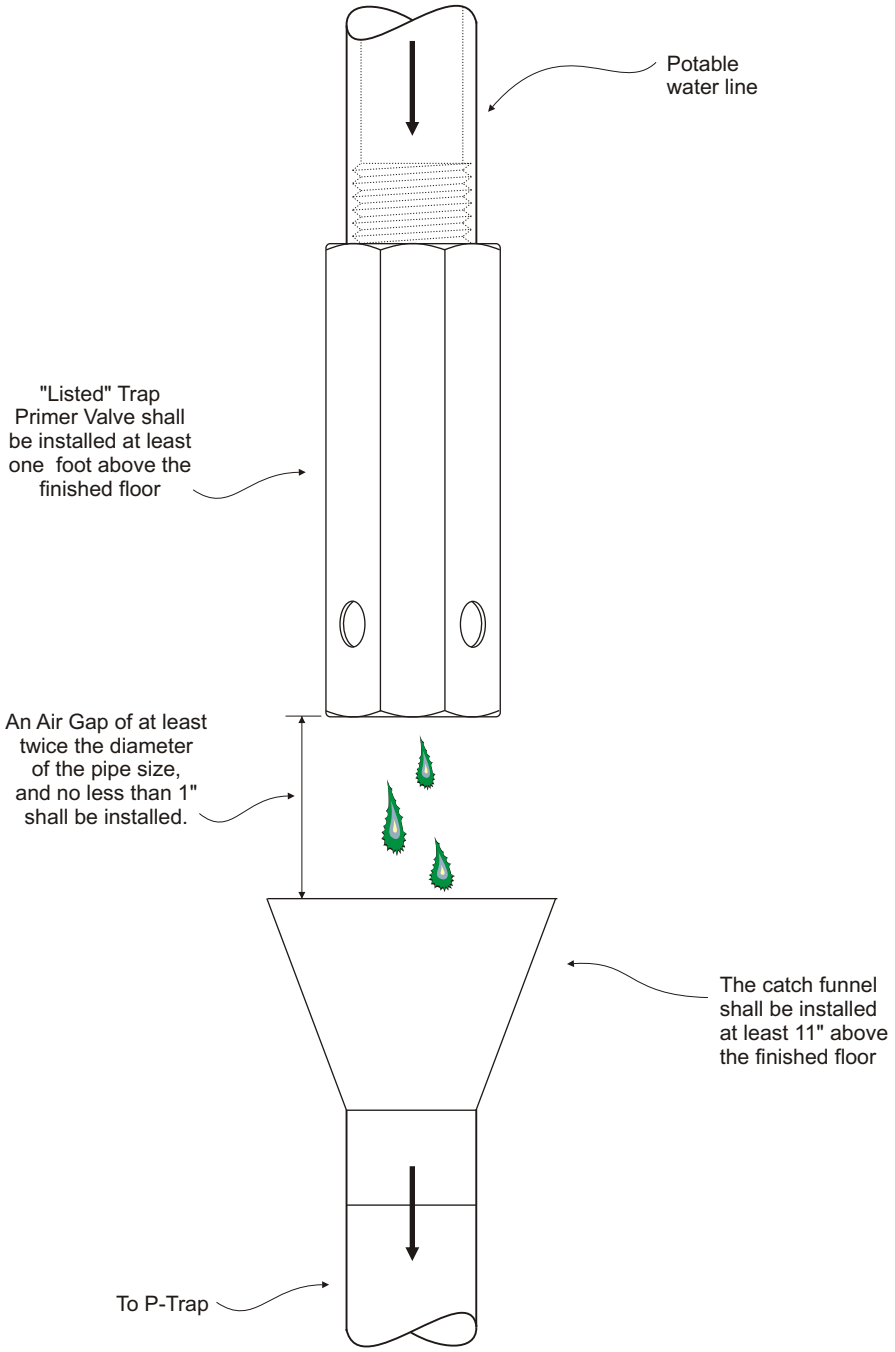
Scale: No Scale | Date: 10/2/97

Drawn By: *Doug Krupinski* | Revised: 4/24/06

STANDARD DRAWING

Pipe Bedding and Trench Backfill for Water Mains

Drwg. No. **COR-23**



CALIFORNIA AMERICAN WATER

San Diego County Operations

Approved By: _____ Operations Superintendent

Scale: No Scale

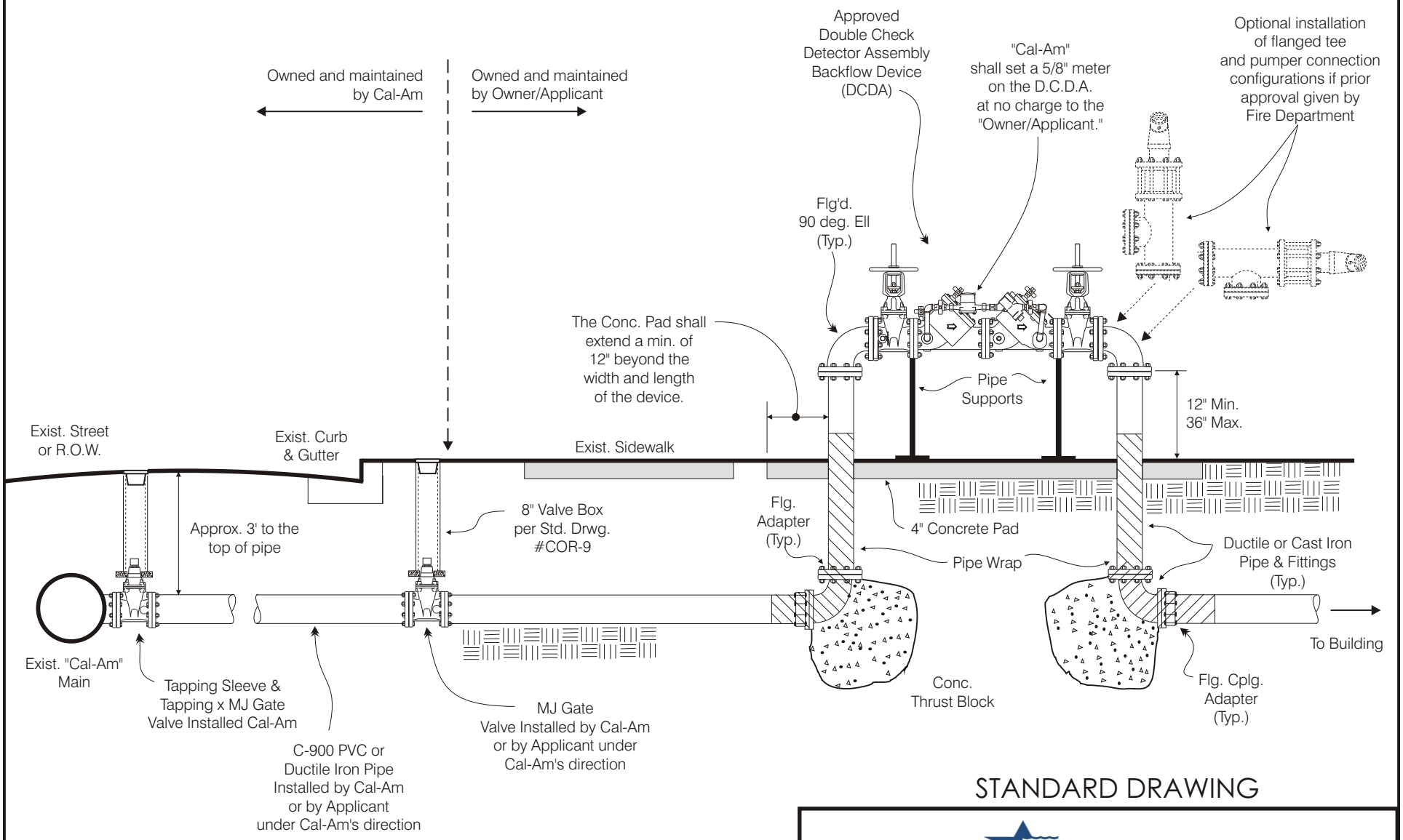
Date: 10/2/97

Drawn By: *Doug Krupinski*

Revised: 4/24/06

Trap Primer Valve Detail

Drwg. No. **COR-24**



PRIVATE FIRE PROTECTION SERVICE & D.C.D.A. Installation

STANDARD DRAWING

CALIFORNIA AMERICAN WATER

San Diego County Operations

Approved By: _____ Operations Superintendent

Scale: No Scale

Date: 10/2/97

Drawn By: *Doug Krupinski*

Revised: 4/24/03

STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A DOUBLE CHECK DETECTOR ASSEMBLY

Drwg. No. **COR-25**

These notes shall be utlilized on the plan title sheet, or detail sheets where applicable:

General Utility Notes

1. All water facilities within the public right-of-way shall be installed by California American Water.
2. Disinfection of water facilities, such as fire services or private water mains, shall be performed by the Contractor according to California American Water standards and under California American Water supervision.
3. The Contractor shall install all water facilities within ***private property*** according to California American Water standards and under California American Water supervision with the exception of water meters which shall be set by California American Water.
4. Within ***private property*** it is the Contractor's responsibility to adapt the service connection if the service size is different than the meter size.

Standard Specifications

1. California American Water Standard Specifications, dated April, 2006.

Standard Drawings

1. California American Water Standard Drawings, dated April, 2006, COR-1 thru COR-28

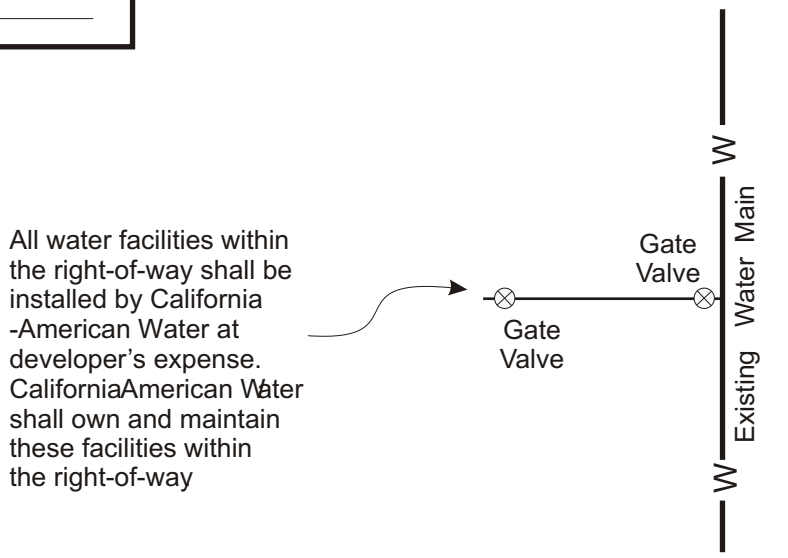
Standard Title Block to be placed at the bottom of plan title sheet:

California American Water

Reviewed By: _____

Date: _____

Example of mapping symbology & notation:



CALIFORNIA AMERICAN WATER

San Diego County Operations

Reviewed By: _____ Operations Superintendent

Scale: No Scale | Date: 10/2/97

Drawn By: *Jacob Quick* | Revised: 12/27/18

STANDARD DRAWING

Standard Notation & Standard Signature Block

Drwg. No. **COR-26**

These notes shall be utlilized on the plan title sheet, or detail sheets where applicable:

General Utility Notes

1. All water facilities within the public right-of-way shall be installed by California American Water.
2. Disinfection of water facilities, such as fire services or private water mains, shall be performed by the Contractor according to California American Water standards and under California American Water supervision.
3. The Contractor shall install all water facilities within ***private property*** according to California American Water standards and under California American Water supervision with the exception of water meters which shall be set by California American Water.
4. Within ***private property*** it is the Contractor's responsibility to adapt the service connection if the service size is different than the meter size.

Standard Specifications

1. California American Water Standard Specifications, dated April, 2006.

Standard Drawings

1. California American Water Standard Drawings, dated April, 2006, COR-1 thru COR-28

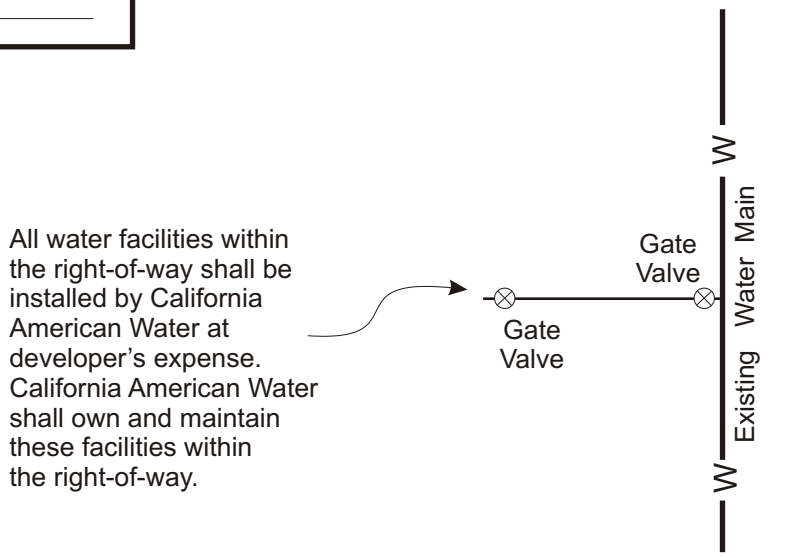
Standard Title Block to be placed at the bottom of plan title sheet:

California American Water

Approved By: _____

Date: _____

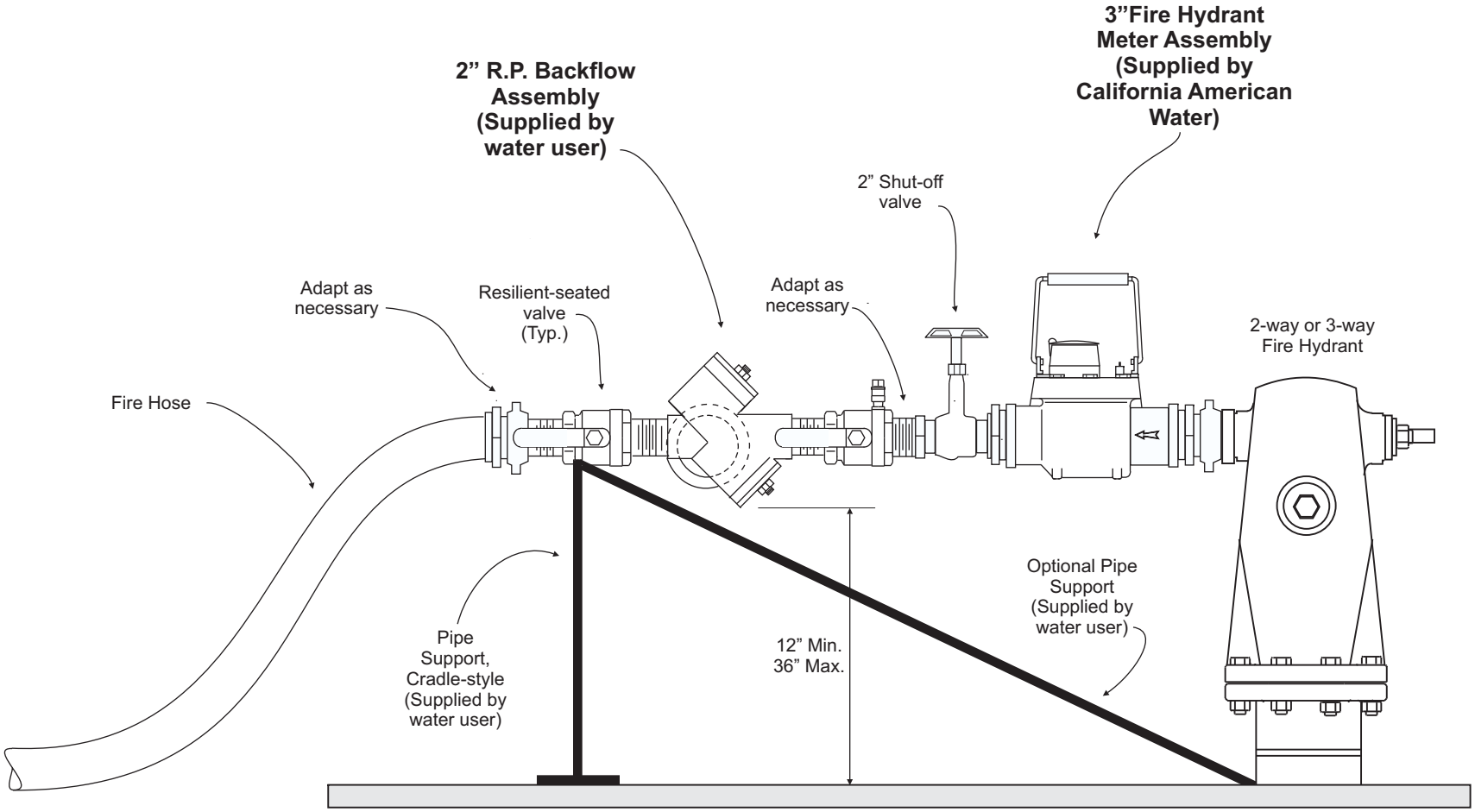
Example of mapping symbology & notation:



CALIFORNIA AMERICAN WATER

San Diego County Operations

Approved By: _____ Operations Superintendent	Scale: No Scale	Date: 10/2/97
	Drawn By: *Doug Krupinski*	Revised: 4/24/06
STANDARD DRAWING **Standard Notation & Standard Signature Block**		Drwg. No. **COR-26**



NOTE: The 3”Fire Hydrant Meter Assembly shall be removed from the hydrant at the end of each working day.
It is the responsibility of the applicant to store the meter in a secure place.

CALIFORNIA AMERICAN WATER

San Diego County Operations

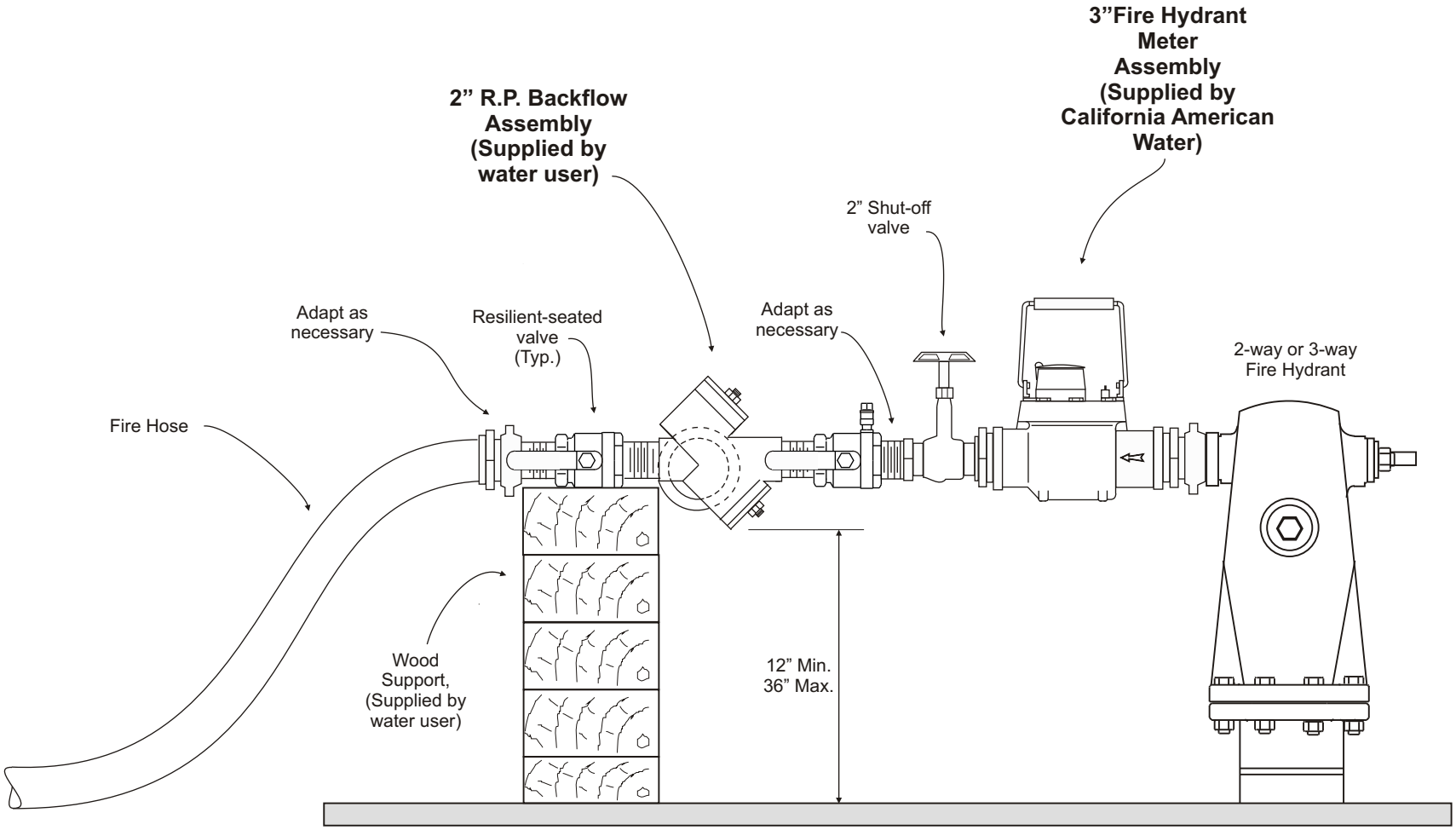
Approved By: _____ Operations Superintendent

Scale: No Scale | Date: 10/2/97

Drawn By: *Doug Krupinski* | Revised: 4/24/06

Standard Drawing
Fire Hydrant Meter & R.P. Installation

Drwg. No.
COR-27A



NOTE: The 3”Fire Hydrant Meter Assembly shall be removed from the hydrant at the end of each working day. It is the responsibility of the applicant to store the meter in a secure place.

CALIFORNIA AMERICAN WATER

San Diego County Operations

Approved By: _____ Operations Superintendent

Scale: No Scale

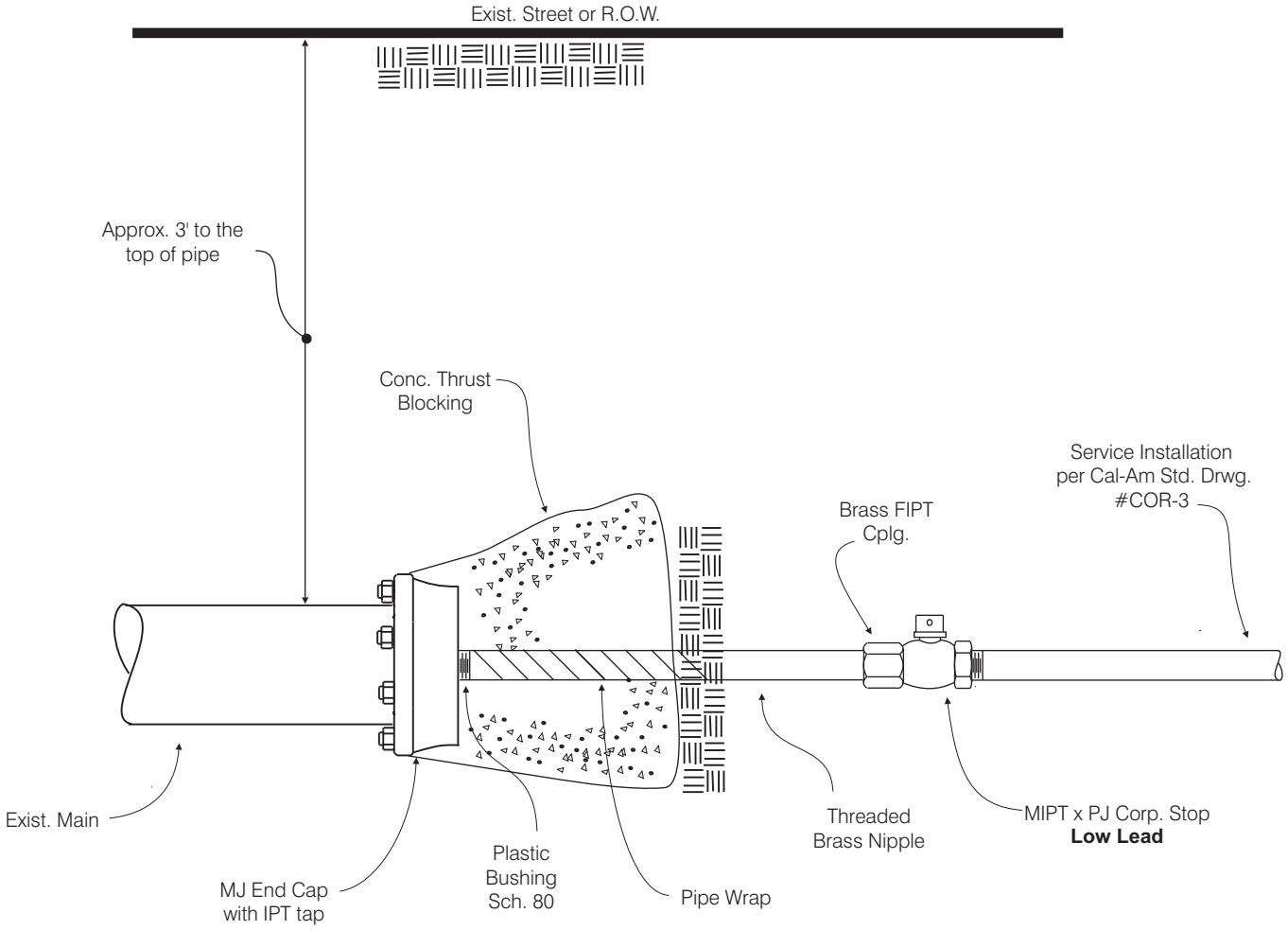
Date: 10/2/97

Drawn By: *Doug Krupinski*

Revised: 4/24/06

Fire Hydrant Meter & R.P. Alternate Installation

Drwg. No. **COR-27B**

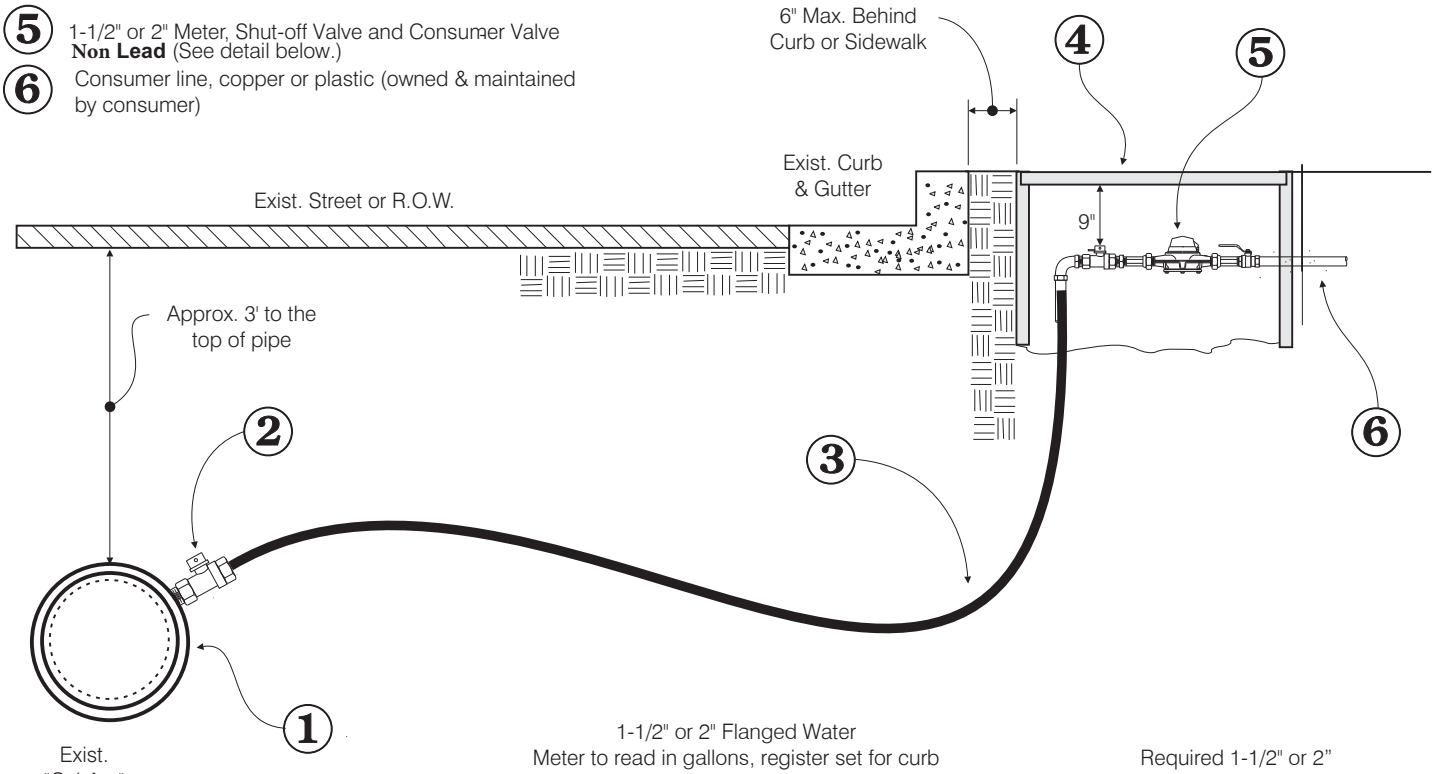


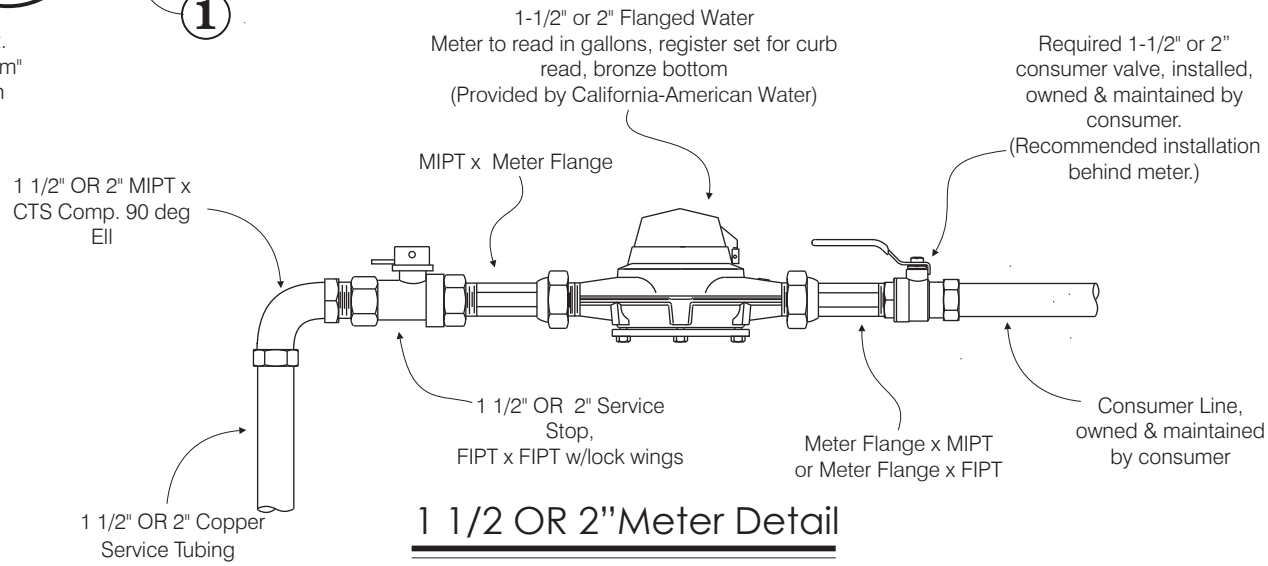
CALIFORNIA AMERICAN WATER

San Diego County Operations

Approved By: _____ Operations Superintendent	Scale: No Scale	Date: 10/2/97
	Drawn By: *DJK*	Revised: 4/24/06
Standard Drawing Water Service Out Of End Cap		Drwg. No. **COR-28**

1. Bronze Service Saddle - **Non Lead**
   For C-900 PVC Pipe: Ford S91 Exact O.D. x 1" IPT Saddle (or Equivalent)
   For A.C. or C.I. Pipe: Ford 202B Dbl. Strap x 1" IPT Saddle (or Equivalent)
2. 1-1/2" or 2"" Corp. Stop, MIPT x CTS-Comp. **-Non Lead**
3. 1-1/2" or 2" Copper Tubing, Type "K" soft
4. Concrete Meter Box, with 2 pc. reading lid & cover, marked "WATER", J & R # 4 1/2 (or Equivalent)
5. 1-1/2" or 2" Meter, Shut-off Valve and Consumer Valve **Non Lead** (See detail below.)
6. Consumer line, copper or plastic (owned & maintained by consumer)





1 1/2 OR 2"Meter Detail

No Scale

CALIFORNIA AMERICAN WATER

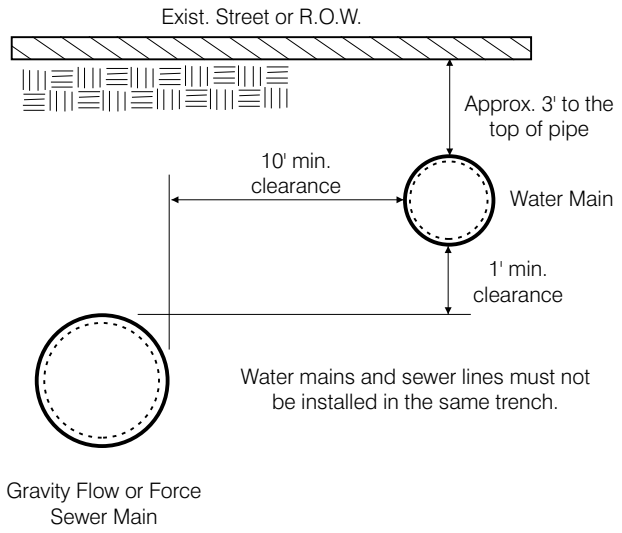
San Diego County Operations
Coronado District

Approved By: _____	Scale: No Scale	Date: 7/18/97
	Drawn By: Jacob Quick	Revised: 5/20/19

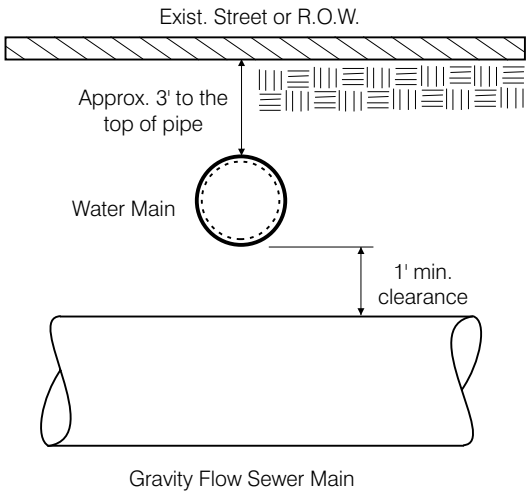
STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A 1-1/2" or 2" SERVICE INSTALLATION WITH 1-1/2" or 2" METER

Drwg. No. **COR-3**

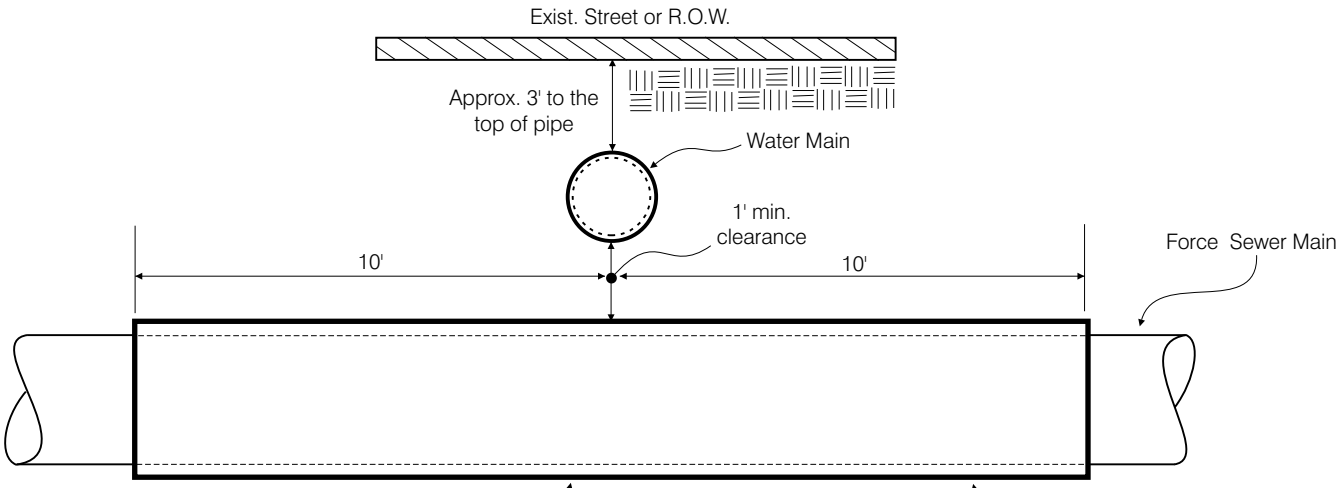
GRAVITY or FORCE SEWER PARALLEL CONSTRUCTION



GRAVITY SEWER PERPENDICULAR CONSTRUCTION



FORCE SEWER MAIN PERPENDICULAR CONSTRUCTION



When a new sewer force main crosses under an existing water main, all portions of the sewer force main within 10' **(TEN)** feet (horizontally) of the water main shall be enclosed in a continuous sleeve.

Continuous Sleeve Steel Conductor Casing with a wall thickness of not less than 1/4" NOTE: Alternative material allowed with prior approval of State of California Department of Health Services

NOTE:
The "California Waterworks Standards" sets forth the minimum separation requirements for water mains, sewer lines and storm lines. These standards are contained in the California Code of Regulations (CCR), Title 22, Division 4, Chapter 16, Section 64572.

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

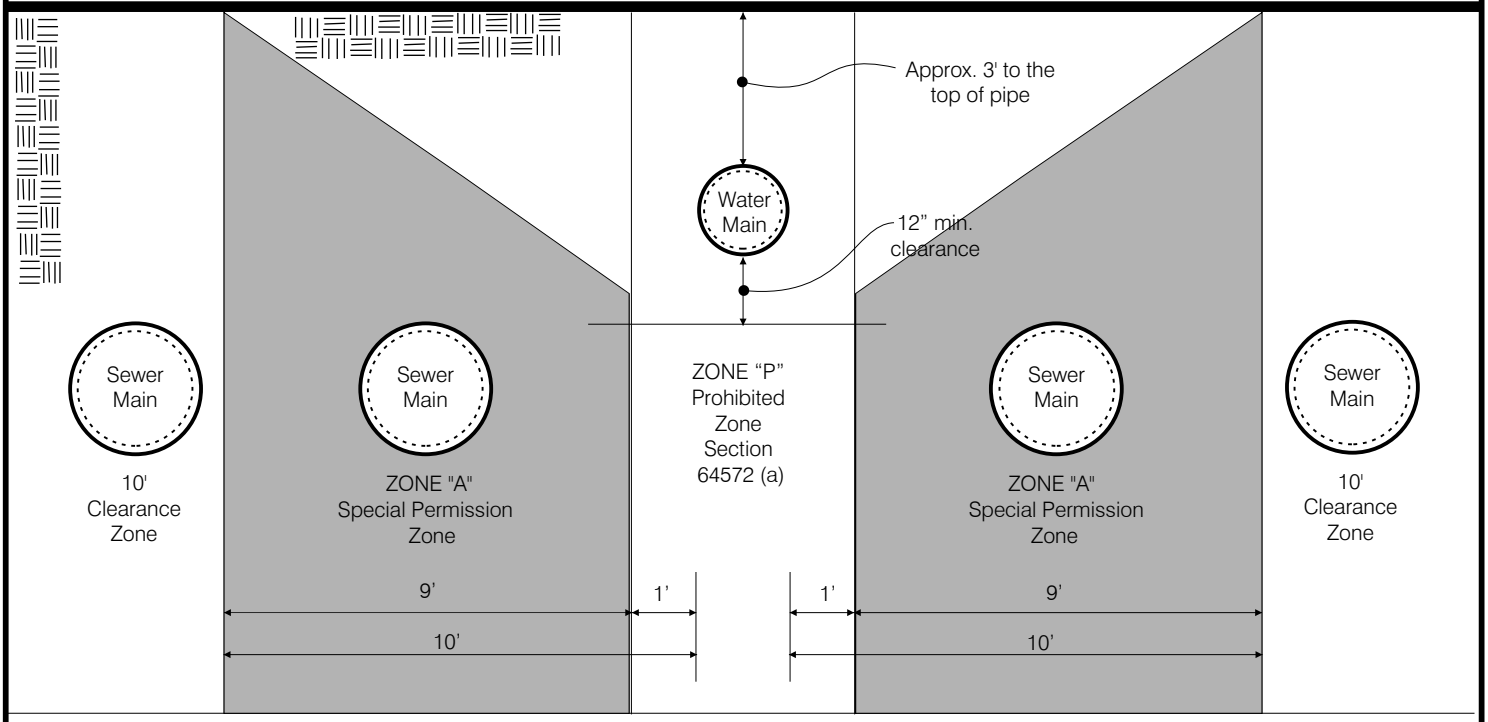
Approved By: _____	Scale: No Scale	Date: 7/18/97
	Drawn By: Jacob Quick	Revised: 10/4/18
Required Separation Between A Water Main & A Sanitary Sewer Main		Drwg. No. **COR-4A**

SPECIAL CONSTRUCTION REQUIREMENTS

WHERE REQUIRED WATER MAIN SEPARATION FROM SANITARY GRAVITY SEWER CANNOT BE MAINTAINED

(Sewer force mains shall not be installed within 10' (horizontally) of the water main.)

PARALLEL CONSTRUCTION



ZONE "A" Special Permission Zone	Special Construction Required for Gravity Sewer Gravity sewer lines parallel to water mains shall not be permitted in this zone without approval from the responsible health agency and water supplier. A gravity sewer line placed parallel to a water line shall be constructed of: 1. Extra strength vitrified clay pipe with compression joints. 2. Plastic sewer pipe with rubber ring joins (per ASTM D3034) or equivalent. 3. Ductile iron pipe with Field Lok joints. 4. Reinforced concrete pressure pipe with compression joints (per AWWA C302-87)
ZONE "P" Prohibited Zone	Prohibited Zone, per California Code of Regulations (CCR), Title 22, Division 4, Chapter 16, Section 64572 (a)

NOTE:
The "California Waterworks Standards" sets forth the minimum separation requirements for water mains, sewer lines and storm lines. These standards are contained in the California Code of Regulations (CCR), Title 22, Division 4, Chapter 16, Section 64572.

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____

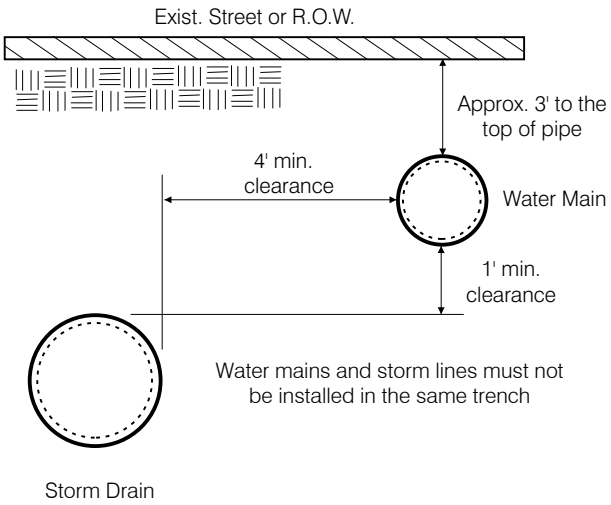
Scale: No Scale | Date: 7/18/97

Drawn By: Jacob Quick | Revised: 4/12/19

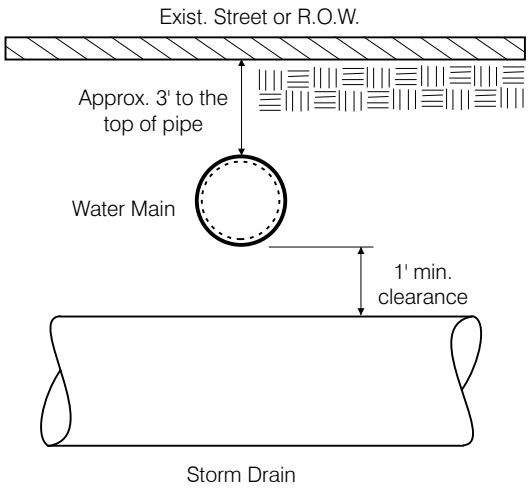
Special Requirements For Separation Between A Water Main & A Sanitary Sewer Main

Drwg. No. **COR-4B**

STORM DRAIN
PARALLEL CONSTRUCTION



STORM DRAIN
PERPENDICULAR CONSTRUCTION



NOTE:
The "California Waterworks Standards" sets forth the minimum separation requirements for water mains, sewer lines and storm lines. These standards are contained in the California Code of Regulations (CCR), Title 22, Division 4, Chapter 16, Section 64572.

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

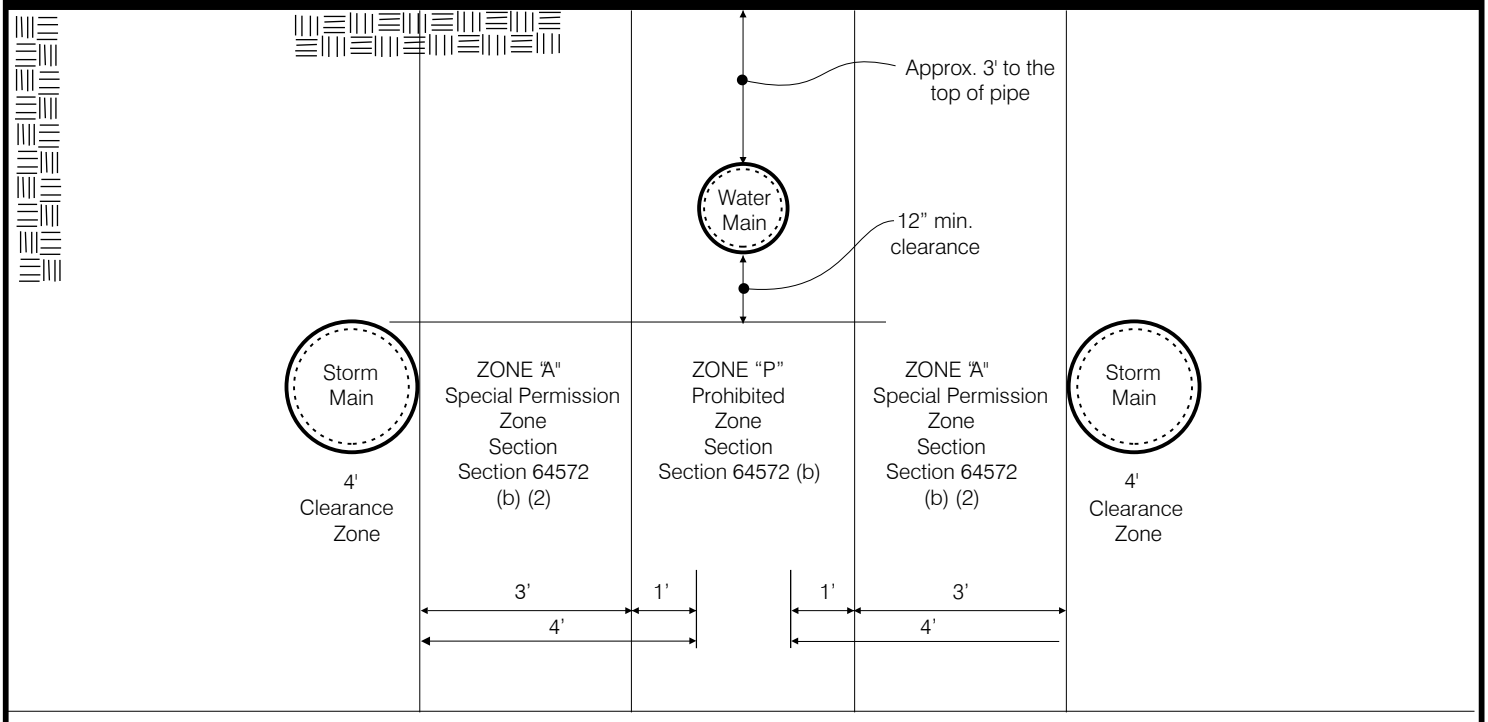
Approved By: _____	Scale: No Scale	Date: 7/18/97
	Drawn By: Jacob Quick	Revised: 6/13/19
Required Separation Between A Water Main & A Storm Drain		Drwg. No. **COR-4C**

SPECIAL CONSTRUCTION REQUIREMENTS

WHERE REQUIRED WATER MAIN SEPARATION FROM STORM DRAIN CANNOT BE MAINTAINED

(Storm drain shall not be installed within 4' horizontally of the water main)

PARALLEL CONSTRUCTION



ZONE "A" Special Permission Zone	Special Construction Required for Storm Sewer Storm sewer lines parallel to water mains shall not be permitted in this zone without approval from the responsible health agency and water supplier
ZONE "P" Prohibited Zone	

NOTE:
The "California Waterworks Standards" sets forth the minimum separation requirements for water mains, sewer lines and storm lines. These standards are contained in the California Code of Regulations (CCR), Title 22, Division 4, Chapter 16, Section 64572.

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

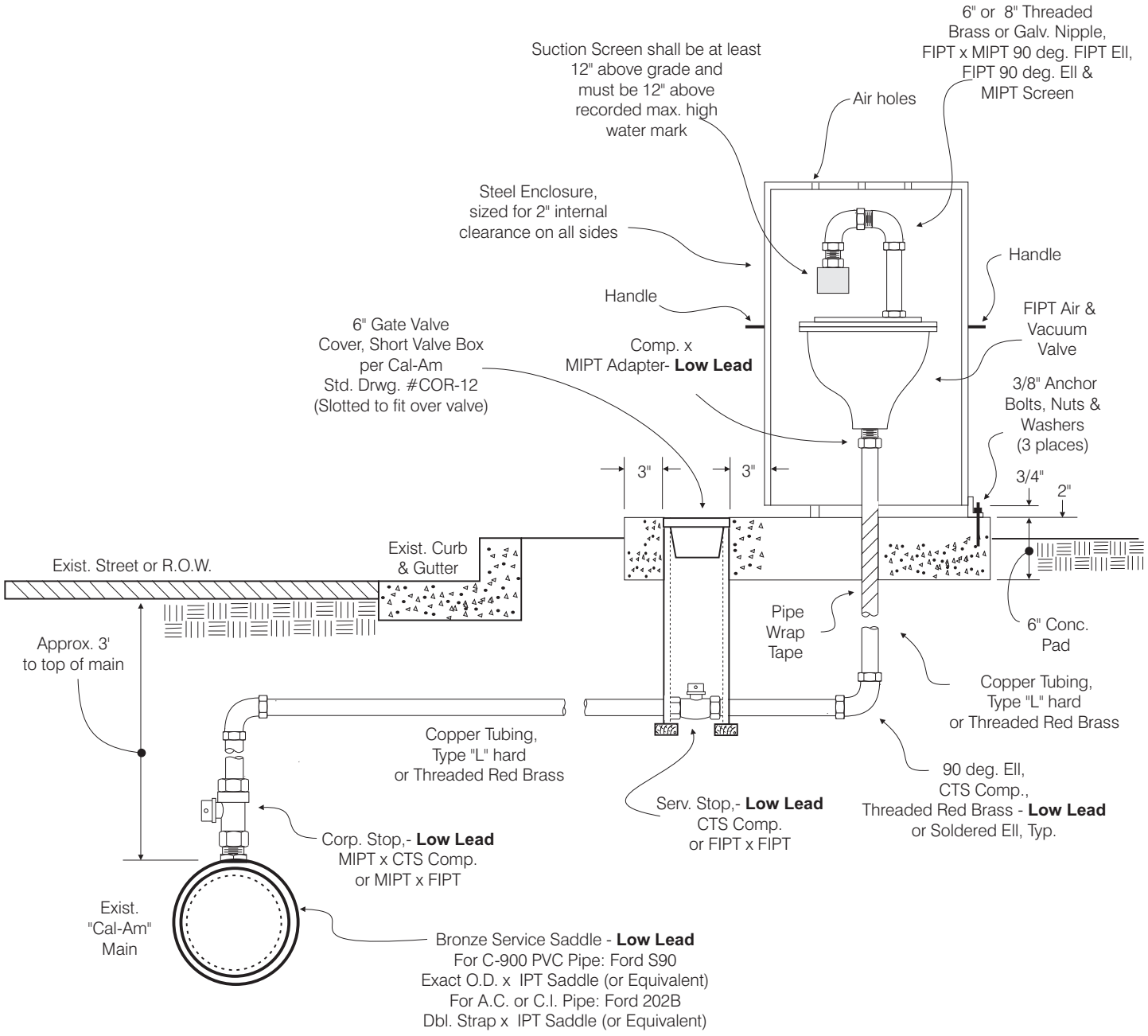
Approved By: _____

Scale: No Scale | Date: 7/18/97

Drawn By: Jacob Quick | Revised: 4/12/19

Special Requirements For Separation Between A Water Main & A Storm Drain

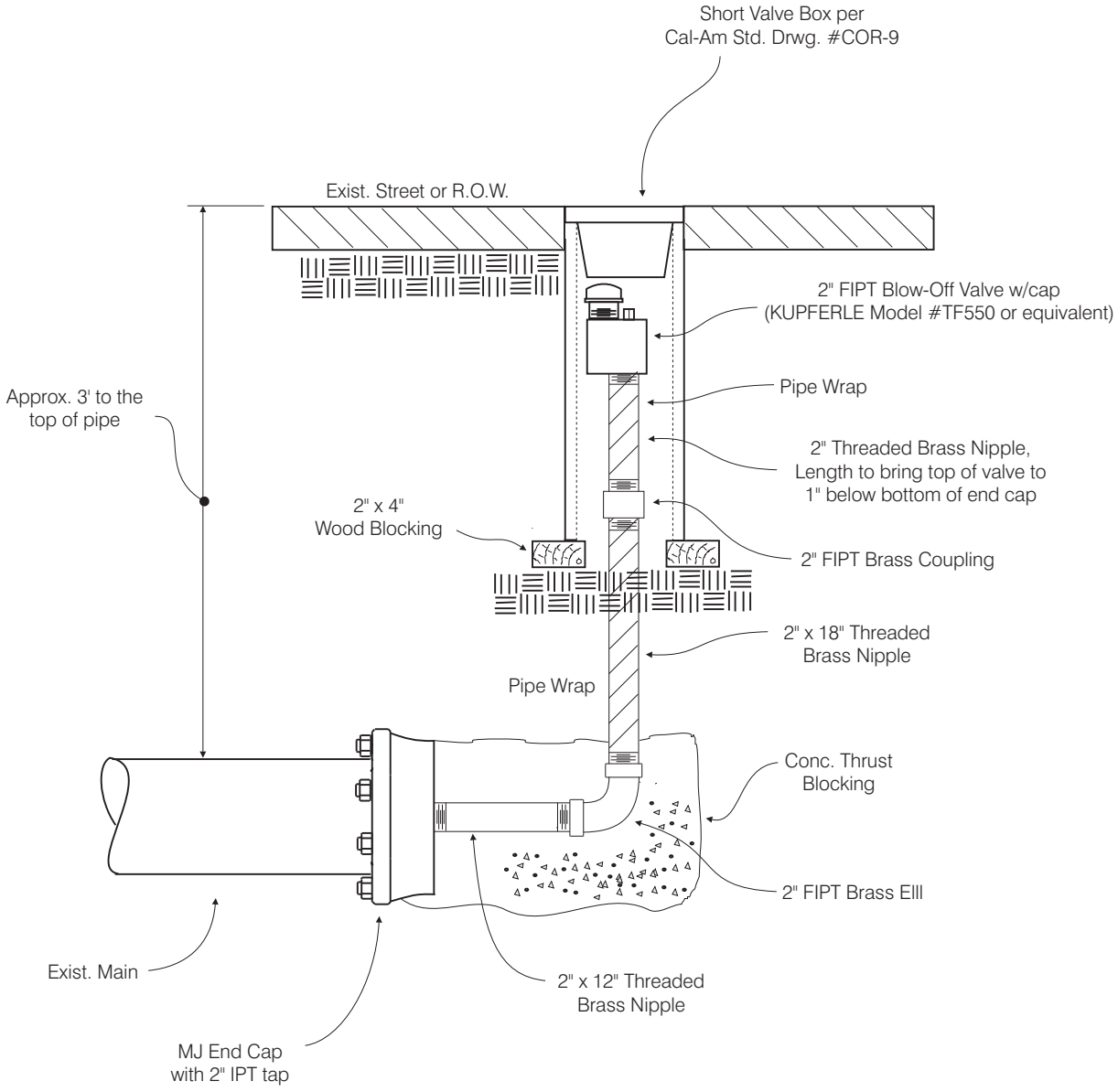
Drwg. No. **COR-4D**



CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____	Scale: No Scale	Date: 7/18/97
	Drawn By: Doug Krupinski	Revised: 5/10/10
STANDARD SPECIFICATIONS FOR THE INSTALLATION OF AN AIR & VACUUM VALVE		Drwg. No. **COR-5**



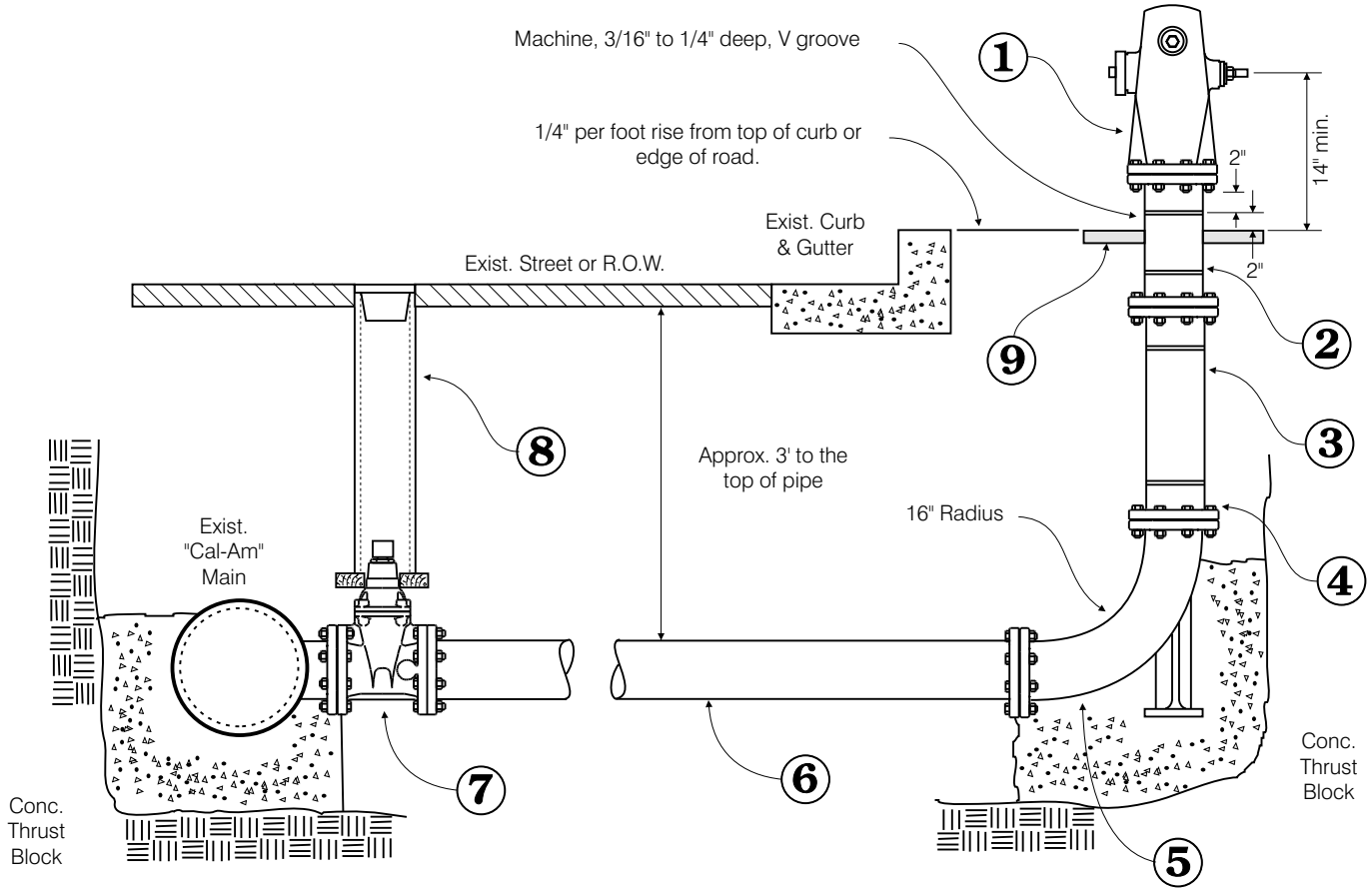
CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

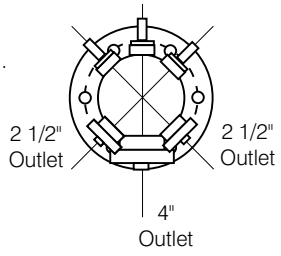
Approved By:	Scale: No Scale	Date: 7/18/97
	Drawn By: Doug Krupinski	Revised: 5/10/10

STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A 2" BLOW-OFF ASSEMBLY

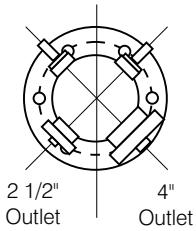
Drwg. No.
COR-6



1. 3-way Fire Hydrant with breakaway bolts
2. 4" x 6", 6" x 6" or 12" x 6" Extension Spool, Cement Lined C.I.
3. 18" x 6" Extension Spool, Cement Lined C.I.
4. 3/4" X 3" Plated Hex. Head Bolts & Nuts, Typ.
5. 6" x 16" Long Radius Bury Ell, MJ x Flg., C.L. C.I.
6. C900 PVC or Ductile Iron Pipe Service Line (Break-off bolts to be used on ex. spools.)
7. 6" RW Gate Valve, 2" Op. Nut, Open Left
8. Valve Box (See Std. Drwg. COR-12)
9. Conc. Apron (See Std. Drwg. COR-11 for fire hydrant locations)

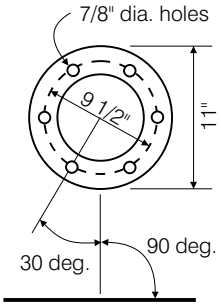


3 OUTLETS



2 OUTLETS

Back of Curb



FLANGE DETAILS WITH SAN DIEGO BOLT HOLE PATTERN

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____

Scale: No Scale

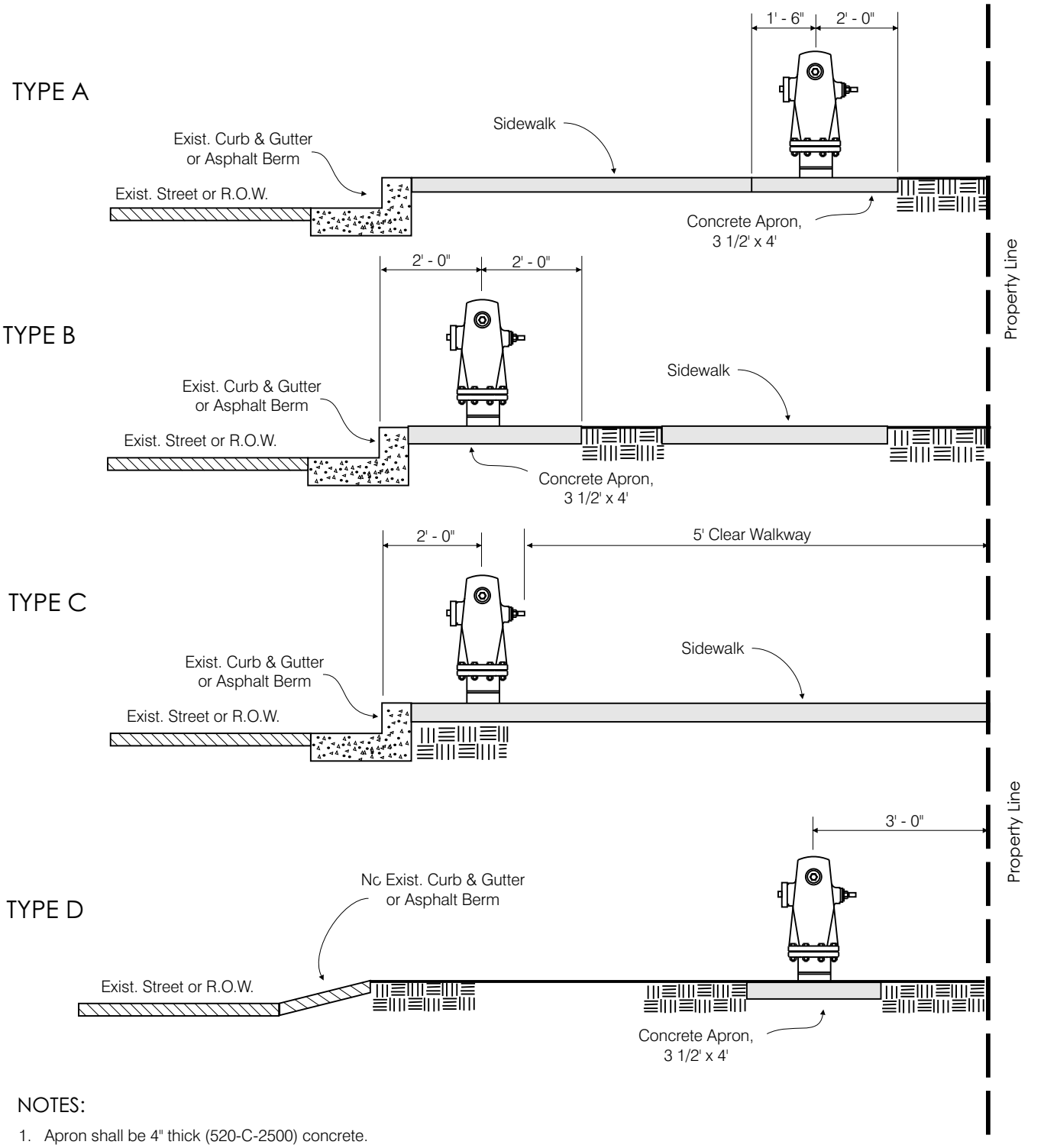
Date: 7/18/97

Drawn By: Jacob Quick

Revised: 9/3/19

STANDARD SPECIFICATIONS FOR THE INSTALLATION OF A 6" FIRE HYDRANT

Drwg. No. **COR-7**



NOTES:

1. Apron shall be 4" thick (520-C-2500) concrete.
2. When distance from hydrant to the top or toe of the slope is less that 2' - 0", a special hydrant installation will be required by Cal-Am.
3. Where hydrant is not protected by a vertical face of curb protective posts are required. (See San Diego Reg. Std. Drwg. W-16 for details)
4. The centerline of the hydrant shall be located 5' minimum from curb return and minimum 3' -6" from driveway or any fixed obstruction.

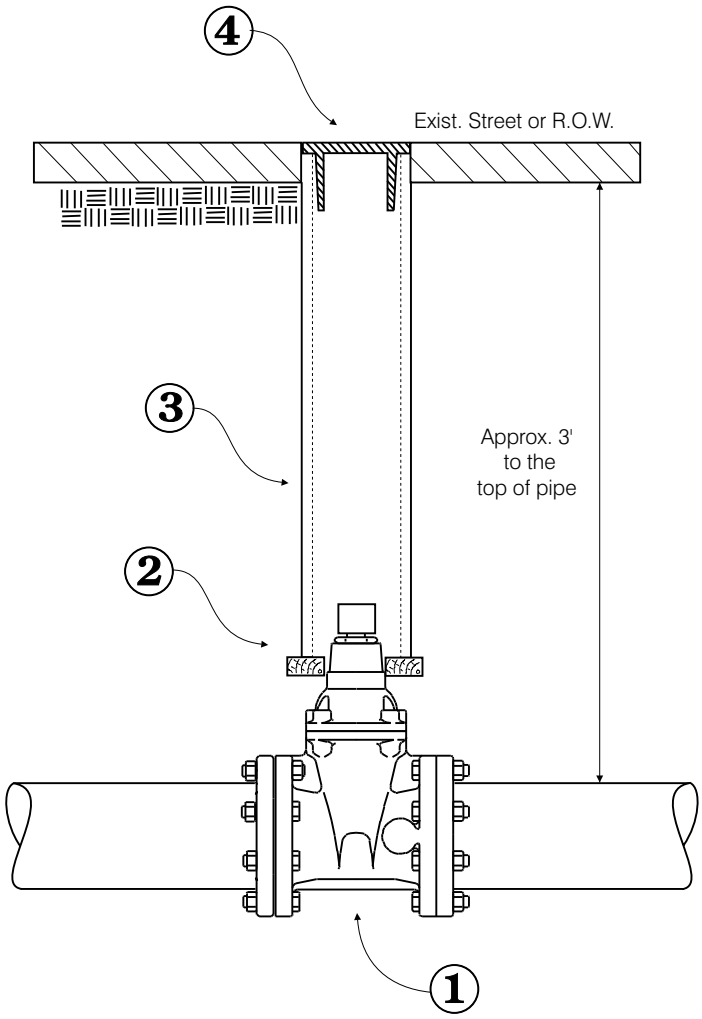
CALIFORNIA AMERICAN WATER

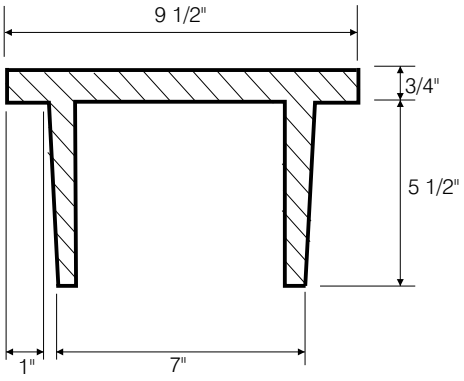
San Diego County Operations
Coronado District

Approved By: _____	Scale: No Scale	Date: 7/18/97
	Drawn By: Doug Krupinski	Revised: 9/24/08

STANDARD SPECIFICATIONS FOR THE INSTALLATION LOCATION OF A 6" FIRE HYDRANT

Drwg. No.
COR-8





DETAIL

8" Cast Iron Valve Box Cap
marked "WATER"

1. Gate or Butterfly Valve
2. 2" x 4" Wood Blocking
3. 8" C-900 PVC Pipe, Class 150
4. Vavle Box Cap per detail

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____ Operations Superintendent

Scale: No Scale

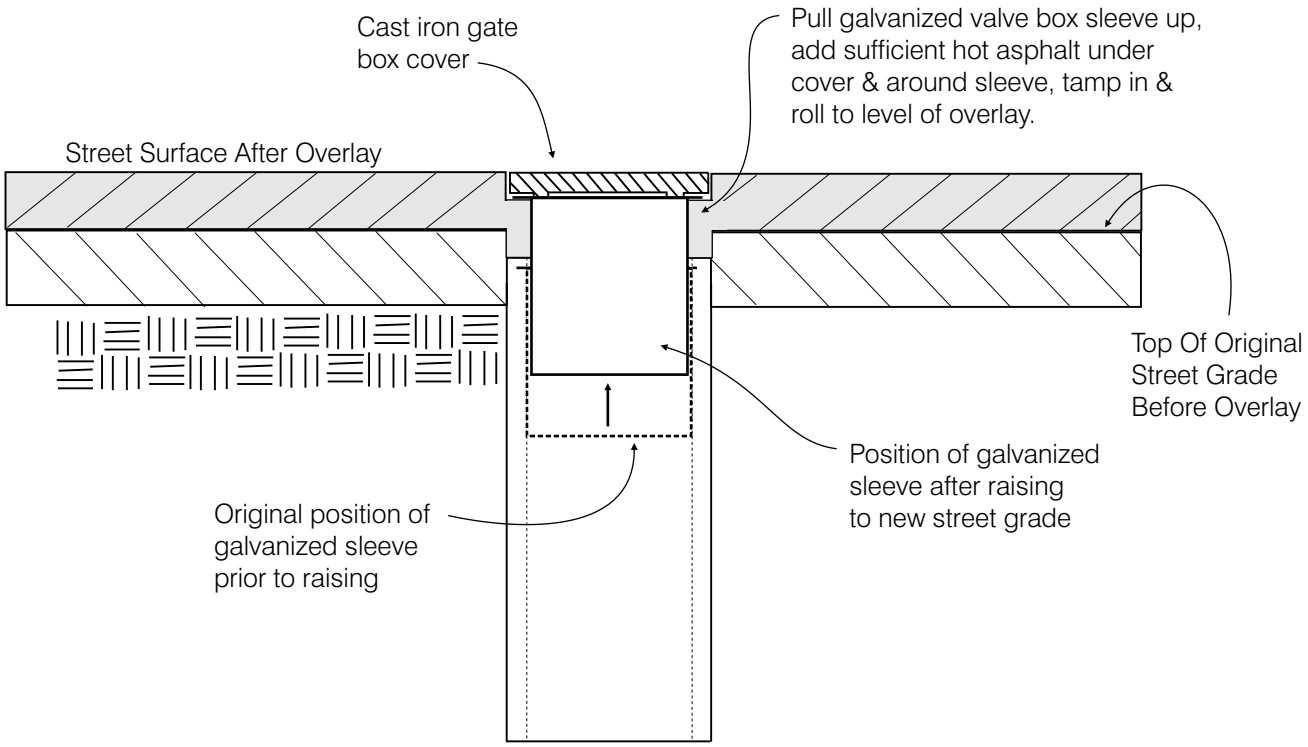
Date: 10/2/97

Drawn By: Doug Krupinski

Revised: 4/19/06

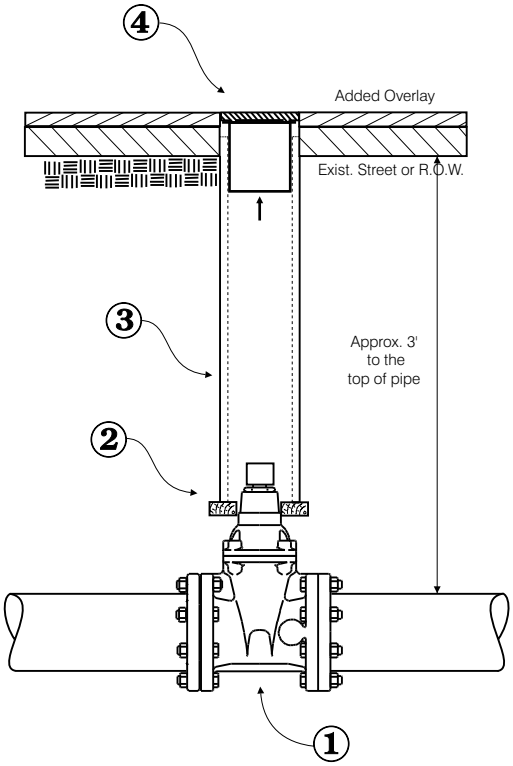
STANDARD DRAWING
VALVE BOX INSTALLATION

Drwg. No.
COR-9A



RAISING DETAIL

6" or 8" Cast Iron Valve Box Cap marked "WATER"



1. Gate or Butterfly Valve
2. 2" x 4" Wood Blocking
3. 8" C-900 PVC Pipe, Class 150
4. Vavle Box Cap Shall Be Raised per detail

CALIFORNIA AMERICAN WATER

San Diego County Operations
Coronado District

Approved By: _____ Operations Superintendent

Scale: No Scale | Date: 6/17/05

Drawn By: Doug Krupinski | Revised: 4/26/06

STANDARD DRAWING
VALVE BOX DETAIL, RAISING STD.

Drwg. No. **COR-9B**