

RULE NO.: R161-18.18**NOTICE OF RULE ADOPTION****ADOPTION DATE: November 7, 2018**

By: Greg Meszaros, Director
Austin Water

The Director of the Department of Austin Water has adopted the following rule. Notice of the proposed rule was posted on October 5, 2018. Public comment on the proposed rule was solicited in the October 5, 2018 notice. This notice is issued under Chapter 1-2 of the City Code. The adoption of a rule may be appealed to the City Manager in accordance with Section 1-2-10 of the City Code as explained below.

A copy of the complete text of the adopted rule is available for public inspection and copying at the following locations. Copies may be purchased at the locations at a cost of ten cents per page:

Austin Water, located at 3907 S. Industrial Dr., Ste. 236, Austin, Texas. See Mr. Eric Langhout, P.E.; and

Office of the City Clerk, City Hall, located at 301 West 2nd Street, Austin, Texas.

EFFECTIVE DATE OF ADOPTED RULE

A rule adopted by this notice is effective on November 7, 2018.

TEXT OF ADOPTED RULE

The adopted rule contains no changes from the proposed rule.

R161-18.18: Notice of Adoption to the Standard Details 520.

Standard Details 520

- Standard Detail 520-AW-01A – The new detail will replace the current Standard Detail 520-AW-01. The purpose of the change is to establish new separation requirements for water and wastewater services.
- Standard Detail 520-AW-01 Removal – This existing detail is being removed and replaced with a new Standard Detail 520-AW-01A.
- Standard Detail 520-AW-01B – This change is being made to fix the Water Service & Meter Installation 1" & Smaller Meters Detail to make necessary improvements to the detail.
- Standard Detail 520-AW-02 Removal – This existing detail is being removed and replaced with a new Standard Detail 520-AW-01B.

- Standard Detail 520-AW-01C – This new detail is being created as a new wastewater service detail.

The adopted rule contains no changes from the proposed rule. A copy of the complete text of the adopted rule is available for public inspection and copying at the following locations. Copies may be purchased at the locations at a cost of ten cents per page:

Austin Water, located at 3907 S. Industrial Dr., Ste. 236, Austin, Texas. See Mr. Eric Langhout, P.E.; and

Office of the City Clerk, City Hall, located at 301 West 2nd Street, Austin, Texas.

SUMMARY OF COMMENTS

Austin Water did not receive comments regarding the rule adopted in this notice.

AUTHORITY FOR ADOPTION OF RULE

The authority and procedure for adoption of a rule to assist in the implementation, administration, or enforcement of a provision of the City Code is provided in Chapter 1-2 of the City Code. The authority to regulate the installation of water and wastewater facilities is established in the Texas Local Government Code Section 552.001 and Title 15 of the City Code.

APPEAL OF ADOPTED RULE TO CITY MANAGER

A person may appeal the adoption of a rule to the City Manager. **AN APPEAL MUST BE FILED WITH THE CITY CLERK NOT LATER THAN THE 30TH DAY AFTER THE DATE THIS NOTICE OF RULE ADOPTION IS POSTED. THE POSTING DATE IS NOTED ON THE FIRST PAGE OF THIS NOTICE.** If the 30th day is a Saturday, Sunday, or official city holiday, an appeal may be filed on the next day which is not a Saturday, Sunday, or official city holiday.

An adopted rule may be appealed by filing a written statement with the City Clerk. A person who appeals a rule must (1) provide the person's name, mailing address, and telephone number; (2) identify the rule being appealed; and (3) include a statement of specific reasons why the rule should be modified or withdrawn.

Notice that an appeal was filed and will be posted by the city clerk. A copy of the appeal will be provided to the City Council. An adopted rule will not be enforced pending the City Manager's decision. The City Manager may affirm, modify, or withdraw an adopted rule. If the City Manager does not act on an appeal on or before the 60th day after the date the notice of rule adoption is posted, the rule is withdrawn. Notice of the City Manager's decision on an appeal will be posted by the city clerk and provided to the City Council.

On or before the 16th day after the city clerk posts notice of the City Manager's decision, the City Manager may reconsider the decision on an appeal. Not later than the 31st day after giving written notice of an intent to reconsider, the City manager shall make a decision.

CERTIFICATION BY CITY ATTORNEY

By signing this Notice of Rule Adoption R161-18.18, the City Attorney certifies that the City Attorney has reviewed the rule and finds that adoption of the rule is a valid exercise of the Director's administrative authority.

REVIEWED AND APPROVED



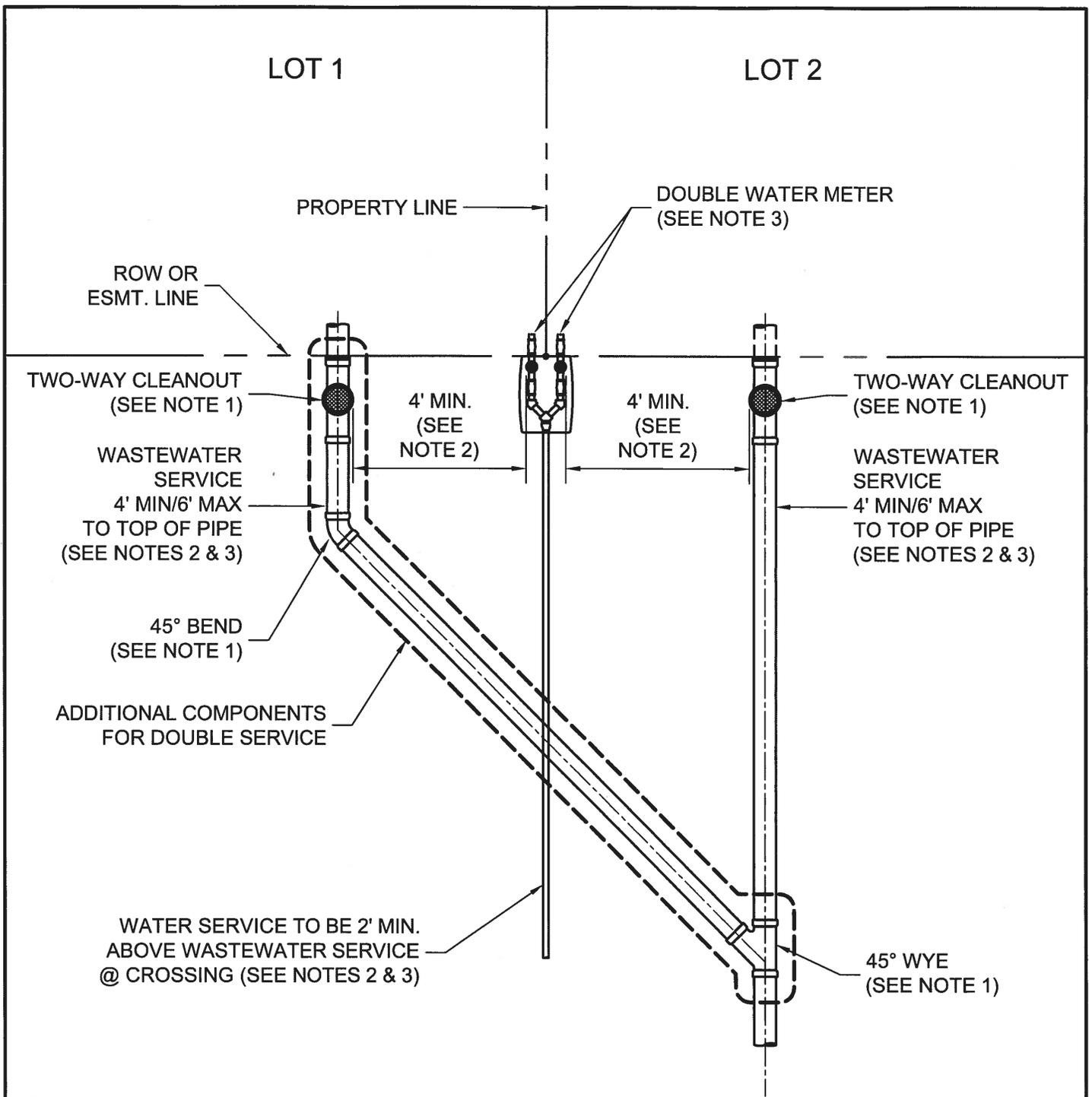
Greg Meszaros, Director
Austin Water

Date: 11/2/18



Anne L. Morgan
City Attorney

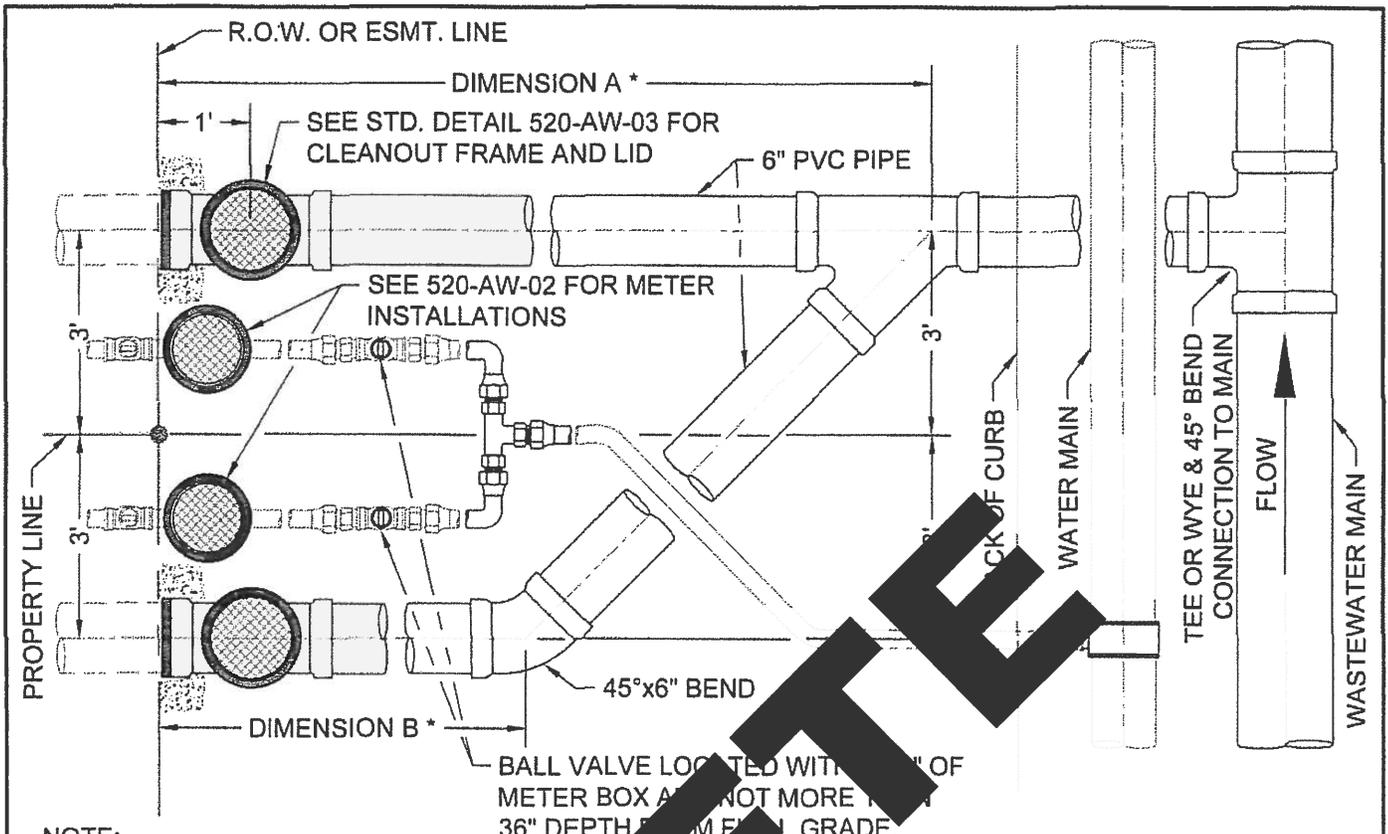
Date: 11/5/18



NOTES:

1. WASTEWATER SERVICE FITTINGS SHALL BE APPROVED FOR USE WITH THIS DETAIL AS LISTED ON SPL WW-227B-1.
2. UTILIZE EXISTING ALIGNMENT FOR REPAIR OR REPLACEMENT OF EXISTING WATER AND WASTEWATER SERVICES. WATER SERVICE SHALL BE INSTALLED AT A SHALLOWER GRADE THAN WASTEWATER SERVICE.
3. SEE STANDARD DETAIL 520-AW-01B FOR WATER SERVICE INSTALLATION AND 520-AW-01C FOR WASTEWATER SERVICE INSTALLATION.

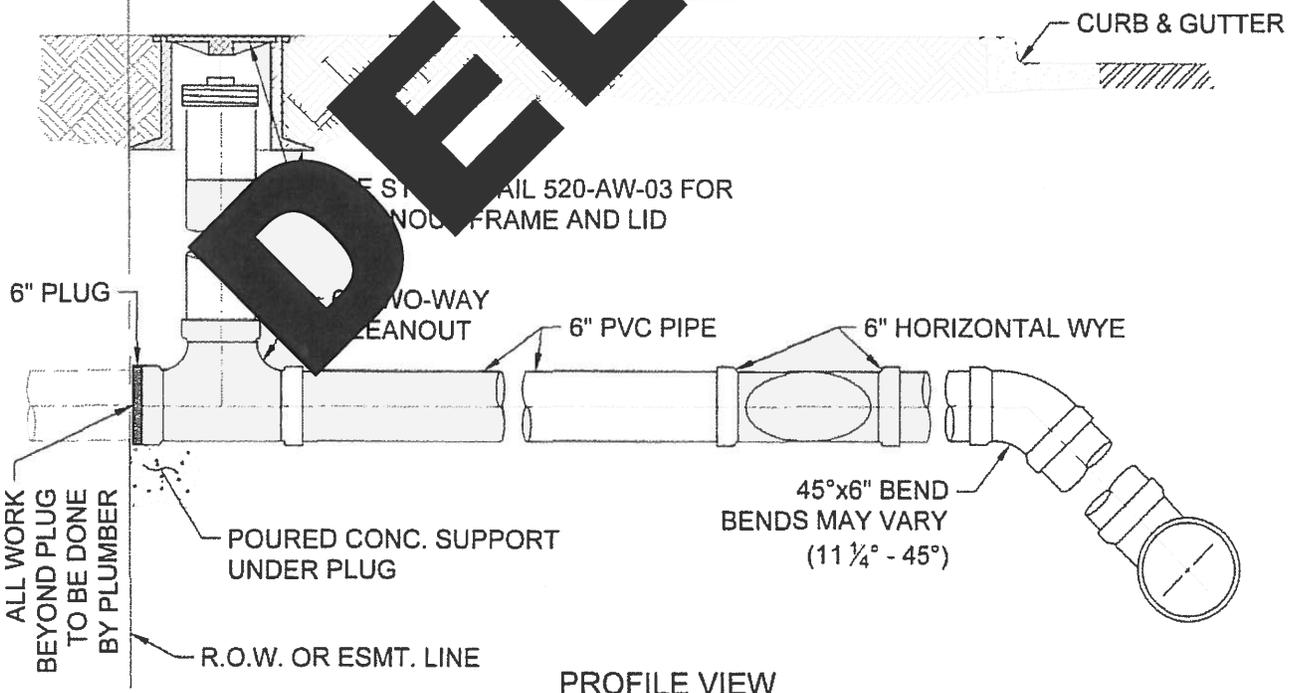
CITY OF AUSTIN AUSTIN WATER		WATER / WASTEWATER SERVICE ON COMMON LOT LINE	
RECORD COPY SIGNED JEFF A. KYLE	11/07/2018 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-01A 1 OF 1



NOTE:
 FOR SINGLE SERVICES, BOTH WATER AND WASTEWATER SERVICE SHALL BE PERPENDICULAR TO THE MAIN, FROM MAIN TO THE R.O.W. OR EASEMENT LINE.

* DIMENSION A AND B DESIRED 10' AND 4' RESPECTIVELY. IF NOT POSSIBLE, ENGINEER TO CALL OUT A AND B ON PLANS.

PLAN VIEW

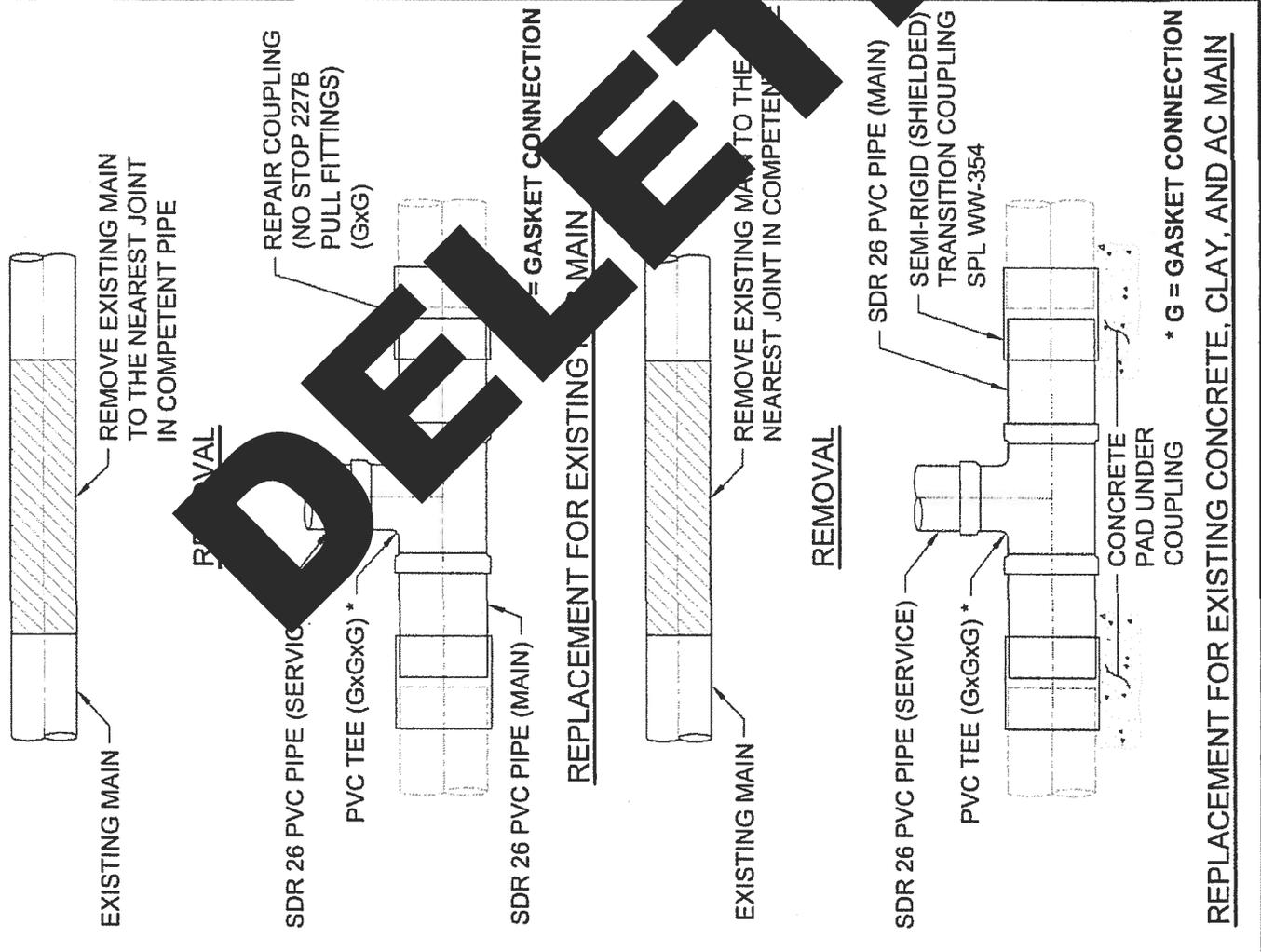


PROFILE VIEW

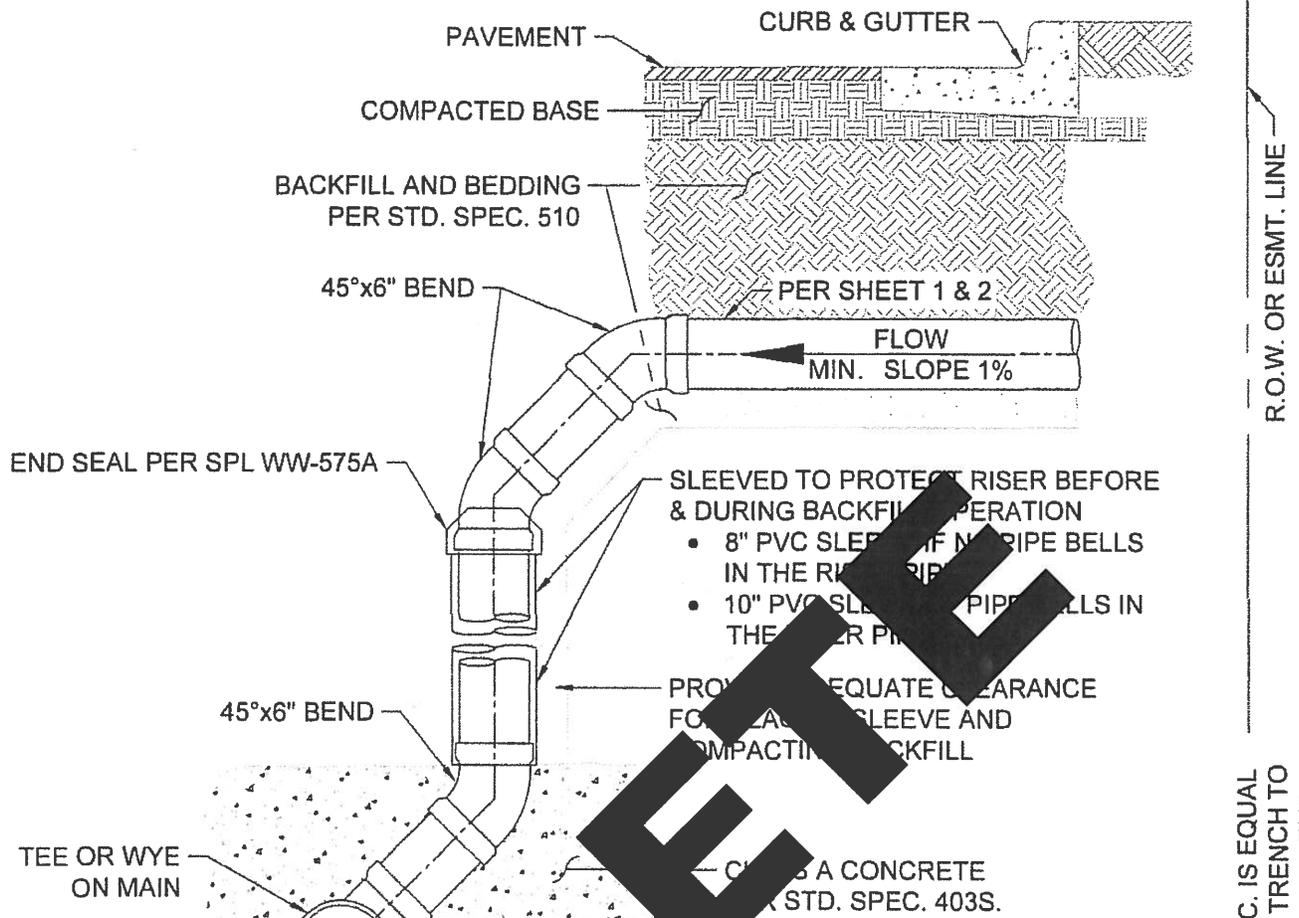
CITY OF AUSTIN AUSTIN WATER	WATER SERVICE & WASTEWATER SERVICE CONNECTION
<i>Kathi L. Flowers</i> 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. STANDARD NO. 520-AW-01 1 OF 4

NOTES:

1. DURING SUBDIVISION CONSTRUCTION UTILITY CONTRACTOR INSTALLS WASTEWATER CONNECTION TO MAIN, 6" STUB, HORIZONTAL WYE FOR DOUBLE SERVICES, 6" SERVICE BRANCH WITH 2-WAY-CLEANOUT(S) AND RISER, FRAME, AND COVER CLEANOUT(S) PLUGGED AT PROPERTY LINE OR EASEMENT LINE END. ALL WASTEWATER PIPING SHALL HAVE ELASTOMERIC GASKET TYPE JOINTS AND SLOPE DOWNWARD TO MAIN 1% MIN. TO 45° MAX. DEPTH OF SERVICE AT PROPERTY LINE WILL BE SHOWN ON PLANS BY ENGINEER IF GREATER THAN 4', OTHERWISE THE INSTALLED DEPTH WILL BE 4' MIN. AND 6' MAX. AT PROPERTY LINE. IF WASTEWATER SERVICE LINE TO MAIN REQUIRES DEFLECTION EXCEEDING 45°, SEE SHEET 3 OF 4. UTILITY CONTRACTOR ALSO INSTALLS WATER CONNECTION TO MAIN WATER PIPE, FITTINGS AND VALVES INCLUDING STOP VALVE. REFER TO DETAIL 520-AW-02.
2. PIPING AND TUBING IN STREET RIGHT-OF-WAY AND IN EASEMENT AREA SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY CITY OF AUSTIN STANDARD SPECIFICATION 510.3 (14); MATERIALS SHALL BE AS SPECIFIED IN 510.2 (2)(A) AND (3)(B); BACKFILL ABOVE THE GRANULAR BEDDING SHALL BE AS REQUIRED BY SECTION 510.3 (25). SERVICE LINES IN THESE AREAS SHALL HAVE A MIN. COVER BELOW FINAL STREET GRADE OF 42".
3. NO METER BOX, BALL VALVE OR CLEAN-OUT SHALL BE SET IN SIDEWALK OR DRIVEWAY AREA AND SHALL BE A MINIMUM OF 6" FROM ALL PAVED AREAS.
4. PLUMBER SHALL REMOVE PLUG AND CONNECT TO 2-WAY CLEAN-OUT. NO CONNECTION TO CLEANOUT STACK IS ALLOWED.



<p>CITY OF AUSTIN AUSTIN WATER</p>	<p>WATER SERVICE & WASTEWATER SERVICE CONNECTION</p>	
<p><i>Kathi L. Flowers</i></p>	<p>05/18/2016 ADOPTED</p>	<p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p> <p>STANDARD NO. 520-AW-01 2 OF 4</p>

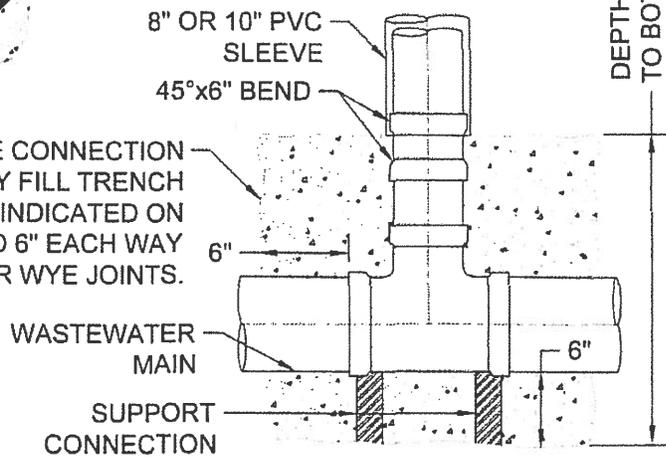


- SLEEVED TO PROTECT RISER BEFORE & DURING BACKFILL OPERATION
- 8" PVC SLEEVE FOR PIPE BELLS IN THE RISER PIPE
 - 10" PVC SLEEVE FOR PIPE BELLS IN THE LOWER PIPE
- PROVIDE ADEQUATE CLEARANCE FOR SLEEVE AND COMPACTING BACKFILL

DELETE

DEPTH OF CONC. IS EQUAL TO BOTTOM OF TRENCH TO TOP OF FIRST 45° BEND

INCREASE THAT SERVICE CONNECTION SHALL COMPLETELY FILL TRENCH WIDTH TO DEPTH INDICATED ON DETAIL AND EXTEND 6" EACH WAY BEYOND TEE OR WYE JOINTS.

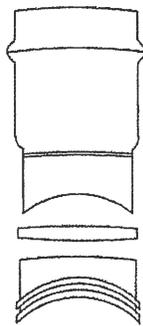
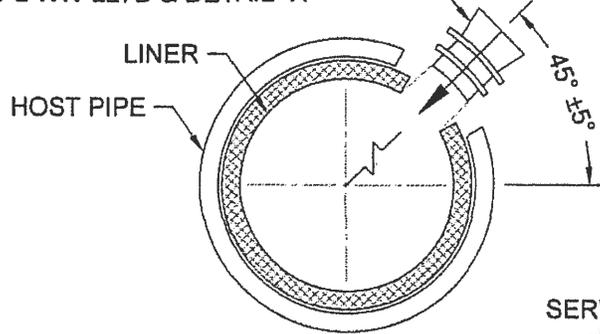


CONCRETE ENCASEMENT FOR SERVICE CONNECTION

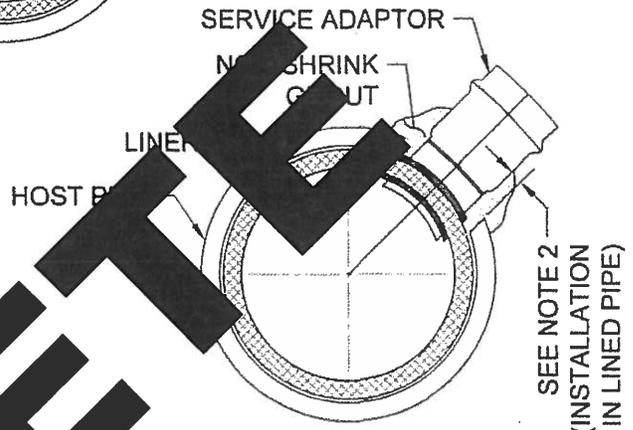
DEEP SERVICE CONNECTION

<p>CITY OF AUSTIN AUSTIN WATER</p>	<p>WATER SERVICE & WASTEWATER SERVICE CONNECTION</p>
<p><i>Kathi L. Flowers</i> 05/18/2016 ADOPTED</p>	<p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p> <p>STANDARD NO. 520-AW-01 3 OF 4</p>

SERVICE ADAPTOR CONSISTING OF SINGLE-BODY GASKETED BELL HAVING SDR 26 PVC HUB, RUBBER SLEEVE AND STAINLESS STEEL BAND. SEE SPL WW-227D & DETAIL "A"



DETAIL "A"



DETAIL "B"

SEE NOTE 2
(INSTALLATION
IN LINED PIPE)

INSTALLATION IN LINED PIPE:

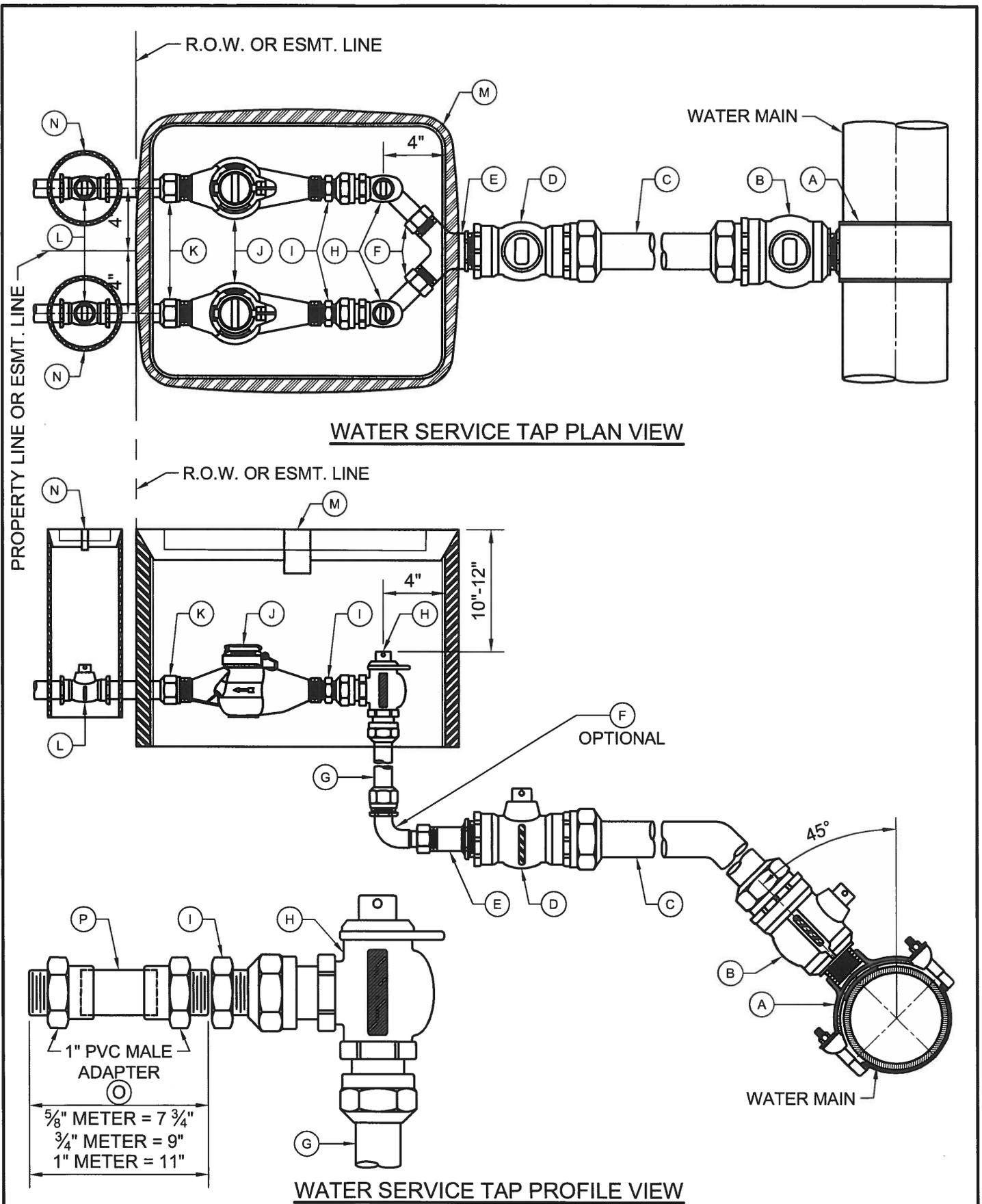
1. MARK LOCATION OF TAP
2. BREAK & REMOVE HOST PIPE THAT OPENING IS AT LEAST 2" BUT NO MORE THAN 3" WIDER THAN DIAMETER OF THE SERVICE ADAPTOR
3. DO NOT DAMAGE LINER.
4. CORE HOLE THROUGH LINER USING ADAPTOR MANUFACTURER RECOMMENDED BIT.
5. INSTALL SERVICE ADAPTOR.
6. HOLES CUT IN HOST PIPE SHALL BE PACKED WITH NON-SHRINK GROUT (ASTM C1107 GRADE). SEE DETAIL "B"

NOTES:

1. USE ONLY TO TAP EXISTING LINED PIPE.
2. SEE APPROPRIATE STD. FOR SERVICE LINE INFORMATION.
3. THE EDGE OF THE CORE HOLE MUST BE AT LEAST 3' FROM THE ENDS OF THE PIPE, ANY OTHER CORE SERVICE CONNECTIONS, AND ANY FITTINGS.
4. FOR DEEP SERVICE APPLICATIONS SEE SHEET 3 OF 4, EXCEPT SUBSTITUTE A CORED HOLE, AND SERVICE ADAPTOR FOR THE TEE OR WYE.
5. SERVICE CONNECTIONS TO MANHOLES MUST BE MADE USING A PIPE-TO-MANHOLE CONNECTOR WHICH LIMITS THE PIPE SLOPE INTO THE MANHOLE TO 12% MAX.

6" WASTEWATER CONNECTION TO EXISTING LINED MAIN

<p>CITY OF AUSTIN AUSTIN WATER</p>	<p>WATER SERVICE & WASTEWATER SERVICE CONNECTION</p>	
<p><i>Kathi L. Flowers</i></p>	<p>05/18/2016 ADOPTED</p>	<p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p> <p>STANDARD NO. 520-AW-01 4 OF 4</p>



WATER SERVICE TAP PLAN VIEW

WATER SERVICE TAP PROFILE VIEW

<p>CITY OF AUSTIN AUSTIN WATER</p>		<p>WATER SERVICE & METER INSTALLATION - 1" & SMALLER METERS</p>	
<p>RECORD COPY SIGNED JEFF A. KYLE</p>		<p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p>	
<p>11/07/2018 ADOPTED</p>		<p>STANDARD NO. 520-AW-01B 1 OF 2</p>	

MATERIALS LIST:

- A. 2" SERVICE CLAMP, SPL WW-264
- B. 2" CORPORATION STOP, SPL WW-68
- C. 2" HDPE WATER SERVICE TUBING, SPL WW-65
- D. 2" BALL VALVE, SPL WW-68
- E. COPPER FLARE SINGLE SERVICE FITTING, SPL WW-68
COPPER FLARE DOUBLE SERVICE WYE, SPL WW-68
- F. 1" SWIVEL NUT x 1" COMPRESSION 90° BEND, SPL WW-68 (OPTIONAL - NOT NEEDED IF MOUNTING BALL VALVE VERTICALLY UNDER ANGLE METER STOP)
- G. 1" HDPE WATER SERVICE TUBING, SPL WW-65
- H. ANGLE METER STOP, SPL WW-68

MATERIALS TO BE INSTALLED BY PLUMBER:

- I. BRASS METER BUSHING - SIZE AS NEEDED TO CONNECT ANGLE STOP TO METER
- J. WATER METER PURCHASED FROM AUSTIN WATER
- K. BRASS WATER METER COUPLING MALE IPT x SWIVEL COUPLING NUT:
5/8" AND 3/4" METERS: 8 1/2" LONG x 3/4" DIA.
1" METERS: 8 1/2" LONG x 1" DIA.
- L. PROPERTY OWNER'S CUT-OFF VALVE, SPL WW-276
- M. METER BOX AND COVER, SPL WW-145A;
FOR DUAL 1" METERS: USE TWO SINGLE METER BOXES
- N. PROPERTY OWNER'S VALVE BOX AND PO CUTOFF LID
- O. TEMPORARY METER SPACER (REQUIRED TO ASSURE METER WILL FIT APPROPRIATELY)
- P. 1" WOODEN DOWEL (SHOW ADDRESS ON DOWEL USING WATERPROOF MARKER)

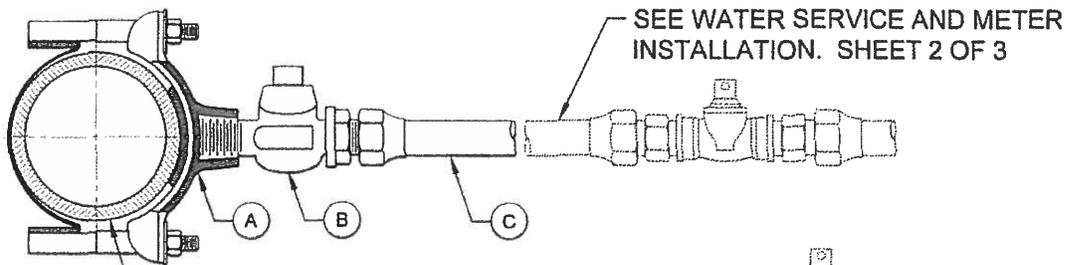
NOTES:

- 1. SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM, SPL WW-27D.
- 2. BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER INSTALLATION.
- 3. TOP OF METER BOXES SHOULD BE 4" ABOVE GROUND.
- 4. PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY SECTION 510.3 (14) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25).
- 5. METER BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR TRAFFIC AREA AND SIDEWALK.
- 6. BALL VALVE "D" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE LOCATED MORE THAN 36" BELOW FINAL GRADE.
- 7. METER SIZES TO BE SHOWN ON PLANS.
- 8. METER BOX CUT OUTS SHALL NOT EXCEED TWO TIMES THE PIPE DIAMETER.
- 9. INSTALL METALLIC WARNING TAPE, SPL WW-597, MINIMUM 1' ABOVE TUBING FROM SERVICE SADDLE TO BALL VALVE "D".
- 10. TUBING SHALL BE PLACED IN A STRAIGHT ALIGNMENT AND ALLOWED TO RELAX AND "SNAKE" LOOSELY IN THE TRENCH. TUBING BEHIND CURB AND GUTTER SHALL BE INSTALLED WITH A MINIMUM 2' DEPTH OF COVER.
- 11. 1" TUBING, WHEN BENT, SHALL HAVE A RADIUS NO SMALLER THAN 3'. 2" TUBING, WHEN BENT, SHALL HAVE A RADIUS NO SMALLER THAN 5'. BRASS FITTINGS SHALL NOT BE CONNECTED TO A BENT SECTION OF TUBING.
- 12. INSERT STIFFENERS FOR HDPE TUBING (PER SPL WW-65B) TO BE INSTALLED INSIDE TUBING AT ALL COMPRESSION FITTINGS.
- 13. FOR RECLAIMED WATER SERVICES AND METERS, ALL RECLAIMED TUBING SHALL BE MANUFACTURED SOLID PURPLE, SPL WW-65A. ALL APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL METER BOX COVERS SHALL BE PURPLE AND HAVE "RECLAIMED WATER" CAST INTO THEM, SPL WW-145A.

CITY OF AUSTIN AUSTIN WATER		WATER SERVICE & METER INSTALLATION - 1" & SMALLER METERS	
RECORD COPY SIGNED JEFF A. KYLE	11/07/2018 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-01B 2 OF 2

ONE METER

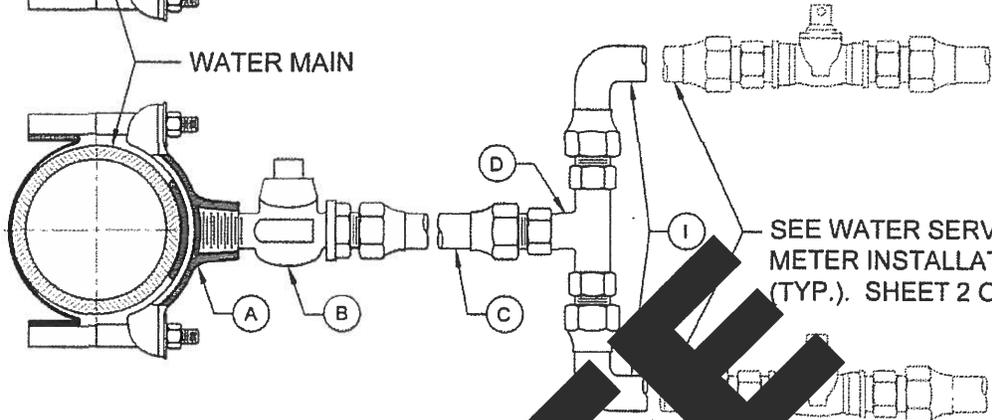
5/8", 3/4", OR
1" METER



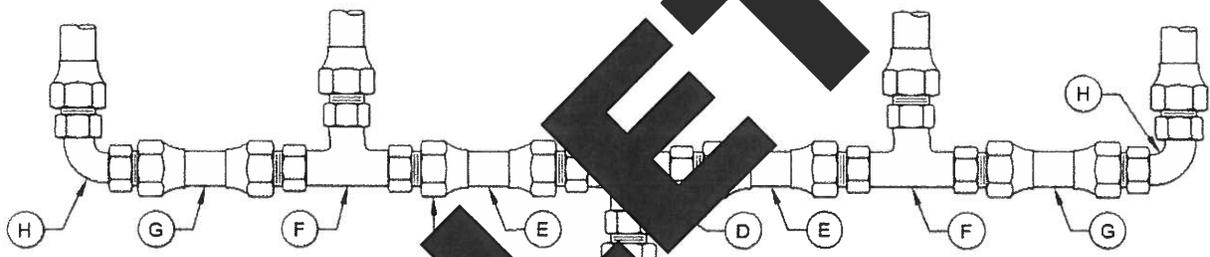
SEE WATER SERVICE AND METER INSTALLATION. SHEET 2 OF 3

TWO METERS

5/8", 3/4", OR
1" METER



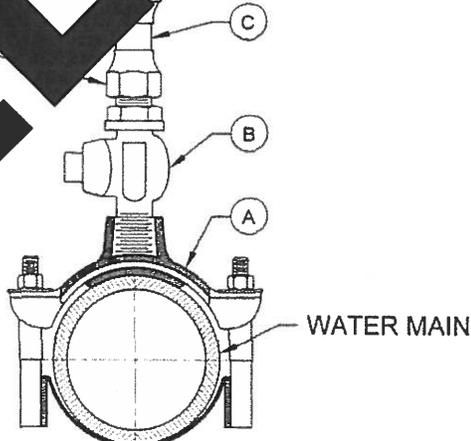
SEE WATER SERVICE AND METER INSTALLATION (TYP.). SHEET 2 OF 3



COMPRESSION COUPLING
TUBING SIZE x MAIN PIPE
TYPICAL ALIGNMENT
CONNECTION TO FITTING

THREE OR FOUR METERS

5/8" OR 3/4" METER
3 METERS: MAX. THREE METERS
4 METERS: MAX. TWO 3/4" METERS AND TWO 5/8" METERS



WATER MAIN

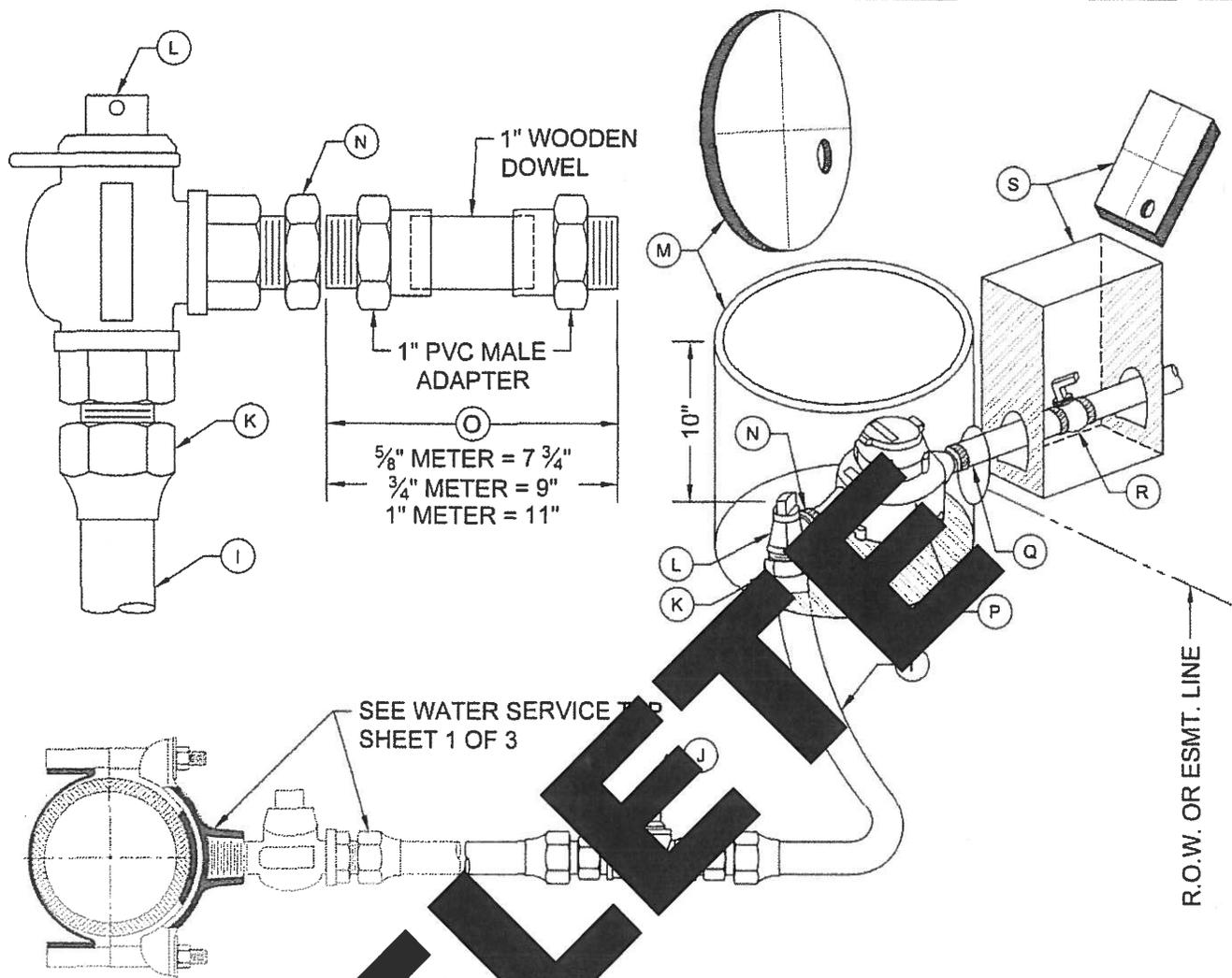
MATERIALS LIST:

- A. 2" SERVICE CLAMP
- B. 2" CORPORATION STOP MALE THREAD INLET BY COMPRESSION OUTLET.
- C. 2" COPPER WATER SERVICE TUBING EXTENDED BEYOND PAVEMENT.
- D. TEE FOR THREE OR FOUR METERS ON WATER TAP. TEE OR WYE FOR TWO METERS ON WATER TAP. (2" x SERVICE TUBING SIZE "E") FOR THREE OR FOUR METERS. 2" TUBING BY SIZE "I" FOR TWO METERS.

(MATERIALS LIST CONT ON SHEET 2 OF 3)

WATER SERVICE TAP

<p>CITY OF AUSTIN AUSTIN WATER</p>	<p>WATER SERVICE & METER INSTALLATION - 1" & SMALLER METERS</p>
<p><i>Kathi L. Flowers</i> 05/18/2016 ADOPTED</p>	<p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p> <p>STANDARD NO. 520-AW-02 1 OF 3</p>



MATERIALS LIST CONT:

- E. SERVICE TUBING, (1 1/2" COPPER OR HDPE)
- F. BRONZE TEE, (SIZE EQUAL TO "E")
- G. SERVICE TUBING COPPER OR 1 1/2" HDPE FOR 3/4" METER OR 1" COPPER OR 1 1/2" HDPE FOR 5/8" METER. METER SIZE TO BE SHOWN ON PLANS.
- H. BRONZE ELBOW, (SIZE EQUAL TO "G"). ALL BRONZE FITTINGS PER SPL WW-68.
- I. SERVICE TUBING FOR SINGLE METER, 1 1/2" COPPER OR 2" HDPE FOR 1" METER. MIN. 1 1/2" COPPER OR 1 1/2" HDPE FOR 3/4" METER. MIN. 1" COPPER OR 1 1/2" HDPE FOR 5/8" METER. METER SIZES TO BE SHOWN ON PLANS.
- J. BALL VALVE, SPL WW-275 (SIZE EQUAL TO "I")
- K. COUPLING - COMPRESSION TO MALE IPT (SIZE "I" x SIZE "I")

- L. ANGLE METER STOP; SERVICE TUBING INLET x SWIVEL COUPLING NUT OUTLET
 - M. METER BOX AND COVER, SPL WW-145A
- TO BE INSTALLED BY PLUMBER:**
- N. BRASS METER BUSHING - SIZE AS NEEDED TO CONNECT ANGLE STOP TO METER
 - O. TEMPORARY METER SPACER (REQUIRED TO ASSURE METER WILL FIT APPROPRIATELY)
 - P. WATER METER PURCHASED FROM AUSTIN WATER (MAY BE INSTALLED BY AUSTIN WATER FOR NEW RESIDENTIAL SERVICE)
 - Q. BRASS WATER METER COUPLING MALE IPT x SWIVEL COUPLING NUT 8 1/2" LONG. 3/4" DIA. FOR 5/8" AND 3/4" METER OR 1" DIA. FOR 1" METER
 - R. CUSTOMER CUT-OFF VALVE
 - S. CUSTOMER VALVE BOX AND LID

WATER SERVICE AND METER INSTALLATION

CITY OF AUSTIN AUSTIN WATER	WATER SERVICE & METER INSTALLATION - 1" & SMALLER METERS
<i>Kathi L. Flowers</i> 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
	STANDARD NO. 520-AW-02 2 OF 3

NOTES:

1. SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
2. BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER INSTALLATION.
3. TOP OF BOXES SHOULD BE 1" ABOVE GROUND.
4. PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY SECTION 510.3 (14) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25).
5. BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR TRAFFIC AREA AND SIDEWALK.
6. BALL VALVE "J" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE LOCATED MORE THAN 24" HORIZONTALLY FROM METER BOX OR 36" BELOW FINAL GRADE.

COPPER:

- C1. COPPER SERVICE SHALL BE COPPER TUBING SIZE ANNEALED SEAMLESS TYPE "K" MEETING ASTM B88 WITH NO SWEAT OR SOLDERED JOINTS.

HDPE:

- H1. INSTALL METALLIC WARNING TAPE MIN. 1' ABOVE TUBING FROM TAP CONNECTION TO METER.
- H2. TUBING SHALL BE PLACED SO THAT IT IS RELAXED AND "SLOTTED" LOOSELY IN THE TRENCH.
- H3. TUBING, WHEN BENT, SHALL HAVE A RADIUS NO SMALLER THAN THE VALUE SHOWN IN TABLE 1.
- H4. IF A FITTING WILL BE INSTALLED WITHIN A BEND SECTION OF TUBING, THE TUBING SHALL HAVE A RADIUS NO SMALLER THAN THE VALUE SHOWN IN TABLE 2.
- H5. INSERT STIFFENERS FOR HDPE TUBING PER SPL WW-65B TO BE INSTALLED INSIDE TUBING AT ALL COMPRESSION FITTINGS.

TABLE 1 (SEE NOTE H3)

NOMINAL TUBING DIA.	RADIUS OF BEND AT LEAST
1"	3'
1 ½"	4'
2"	5'

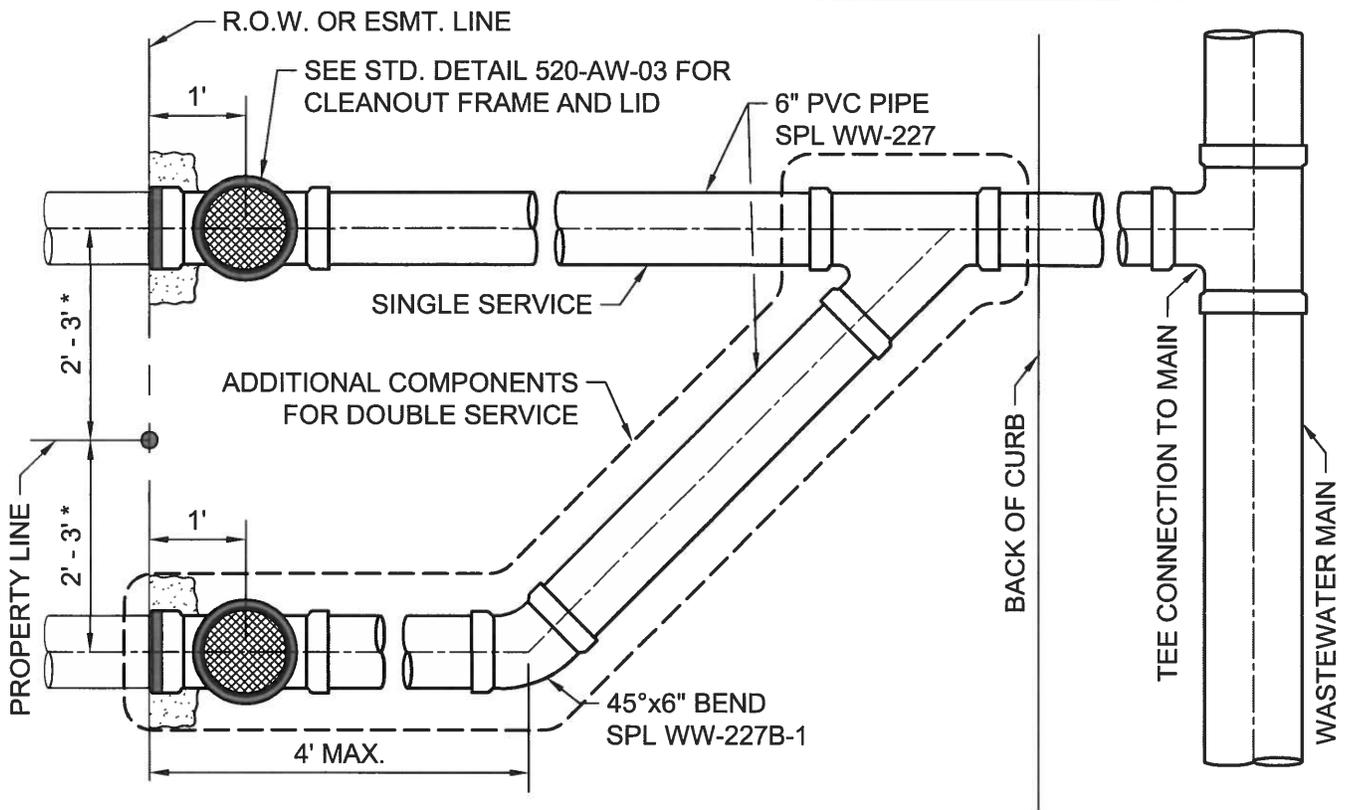
TABLE 2 (SEE NOTE H4)

NOMINAL TUBING DIA.	BEND RADIUS OF AT LEAST
1"	12'
1 ½"	16'
2"	20'

RECLAIMED WATER:

- R1. FOR RECLAIMED WATER SERVICES AND METERS, ALL RECLAIMED TUBING SHALL BE MANUFACTURED PURPLE TUBING. HDPE TUBING SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER TUBING AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL TUBING AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.

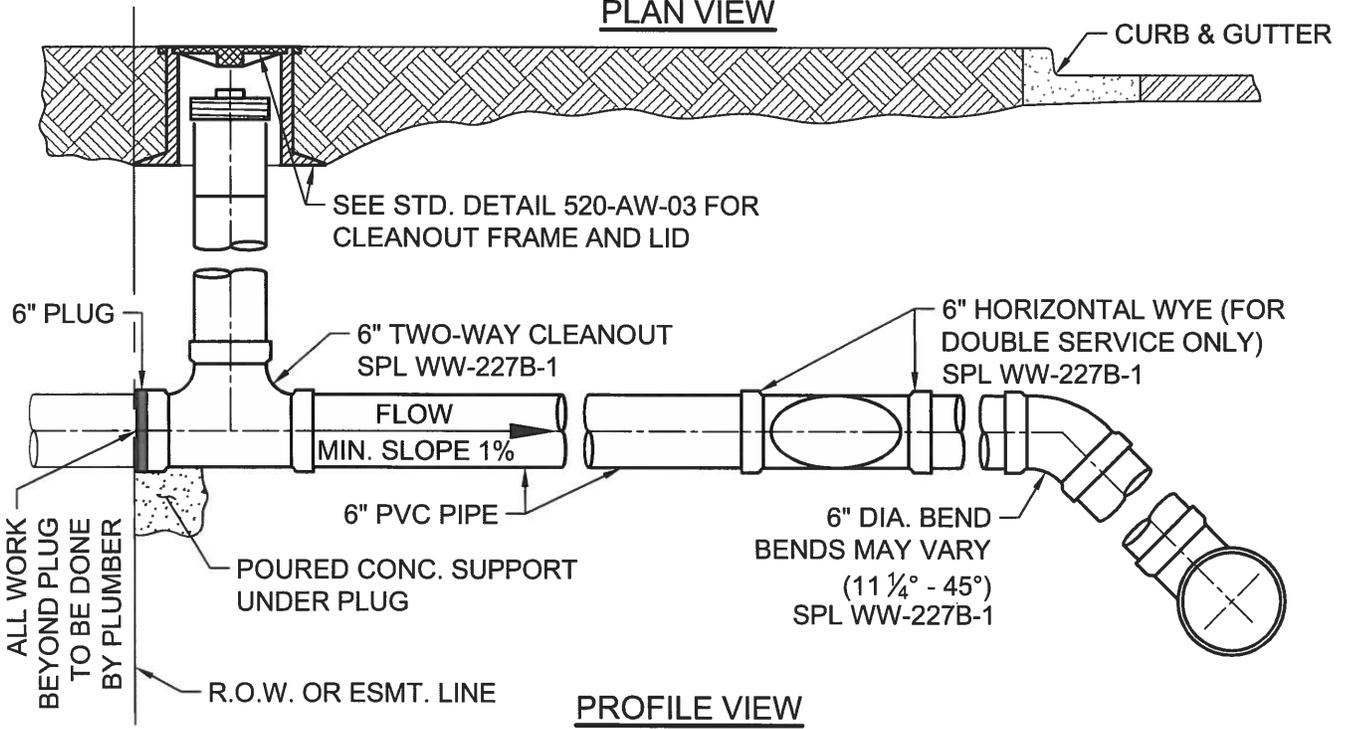
CITY OF AUSTIN AUSTIN WATER		WATER SERVICE & METER INSTALLATION - 1" & SMALLER METERS	
<i>Kathi L. Flowers</i> 05/18/2016 ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-02 3 OF 3



* OFFSET FROM PROPERTY LINE IS FOR DOUBLE WASTEWATER SERVICE INSTALLATION ONLY.

WHERE WATER & WASTEWATER SERVICES ARE INSTALLED ON A COMMON LOT LINE, SEE DETAIL 520-AW-01A

PLAN VIEW

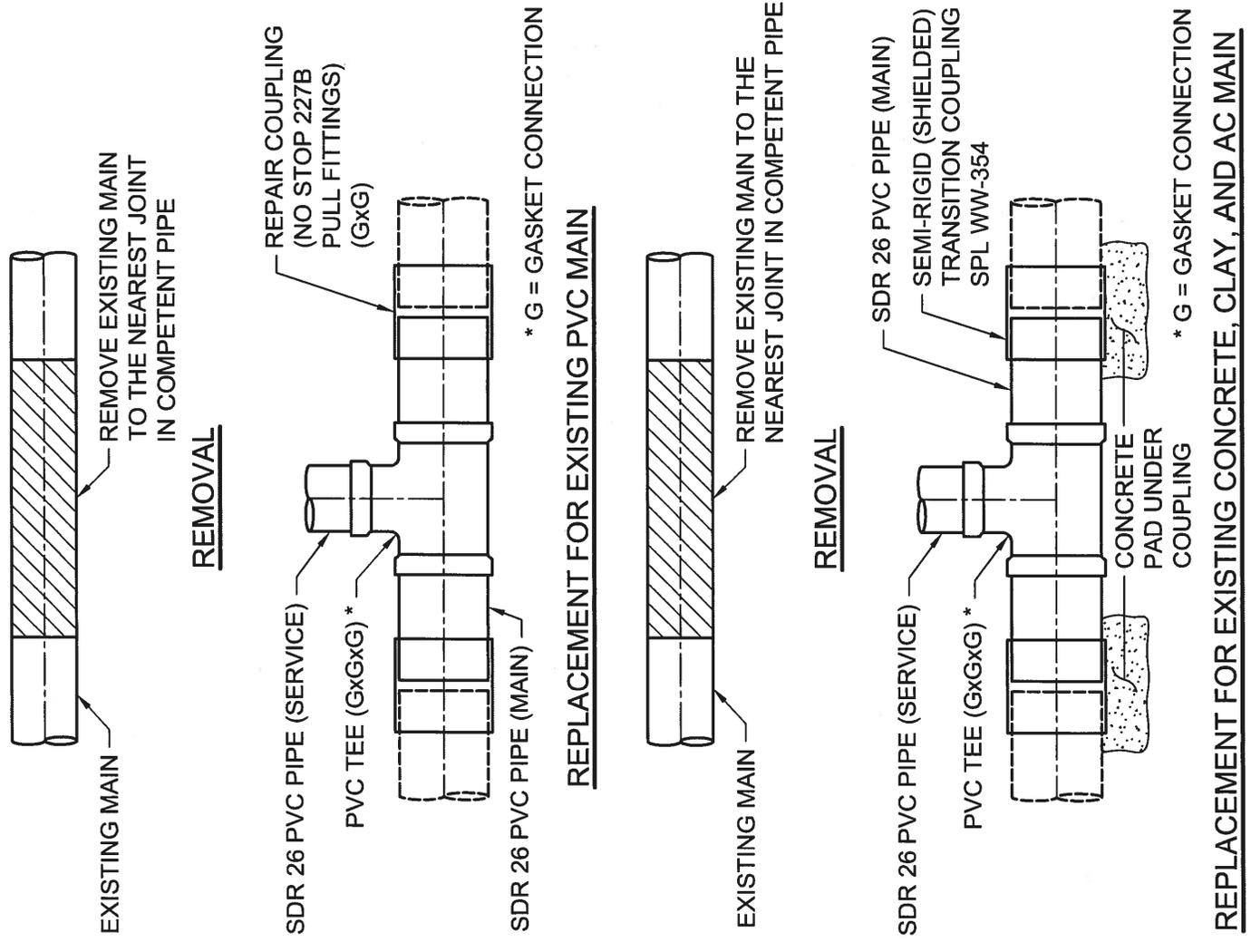


PROFILE VIEW

CITY OF AUSTIN AUSTIN WATER		SINGLE AND DOUBLE WASTEWATER SERVICE CONNECTION	
RECORD COPY SIGNED JEFF A. KYLE	11/07/2018 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-01C 1 OF 4

NOTES:

1. DURING SUBDIVISION CONSTRUCTION, UTILITY CONTRACTOR INSTALLS WASTEWATER TEE CONNECTION TO MAIN, 6" STUB, HORIZONTAL WYE FOR DOUBLE SERVICES, 6" SERVICE BRANCH WITH TWO-WAY CLEANOUT(S) AND RISER, FRAME, AND COVER. CLEANOUT(S) TO BE PLUGGED AT PROPERTY LINE OR EASEMENT LINE END. ALL WASTEWATER PIPING SHALL HAVE ELASTOMERIC GASKET TYPE JOINTS AND SLOPE DOWNWARD TO MAIN 1% MIN. TO 45° MAX. DEPTH OF SERVICE AT PROPERTY LINE WILL BE SHOWN ON PLANS BY ENGINEER IF GREATER THAN 4', OTHERWISE THE INSTALLED DEPTH WILL BE 4' MIN. AND 6' MAX. AT PROPERTY LINE. IF WASTEWATER SERVICE LINE TO MAIN REQUIRES DEFLECTION EXCEEDING 45°, SEE SHEET 3 OF 4.
2. PIPING IN STREET RIGHT-OF-WAY AND IN EASEMENT AREA SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY CITY OF AUSTIN STANDARD SPECIFICATION 510.3 (14); MATERIALS SHALL BE AS SPECIFIED IN 510.2 (2)(A) AND (3)(B); BACKFILL ABOVE THE GRANULAR BEDDING SHALL BE AS REQUIRED BY SECTION 510.3 (25). SERVICE LINES IN THESE AREAS SHALL HAVE A MIN. COVER BELOW FINAL STREET GRADE OF 42".
3. PLUMBER SHALL REMOVE PLUG AND CONNECT TO TWO-WAY CLEANOUT. NO CONNECTION TO CLEANOUT STACK IS ALLOWED.



CITY OF AUSTIN
AUSTIN WATER

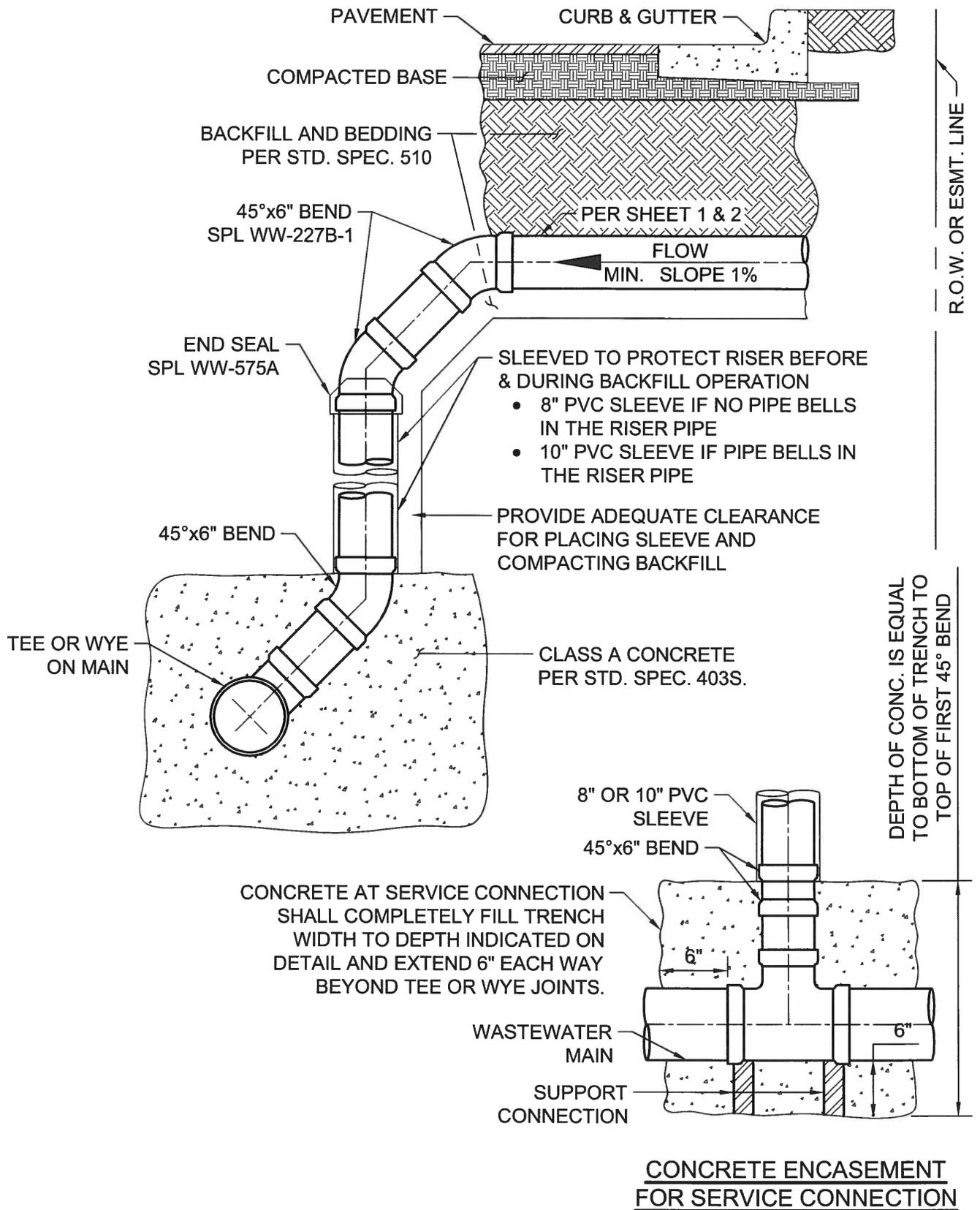
SINGLE AND DOUBLE WASTEWATER
SERVICE CONNECTION

RECORD COPY SIGNED
JEFF A. KYLE

11/07/2018
ADOPTED

THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE
USE OF THIS STANDARD.

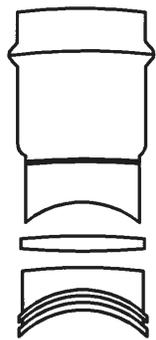
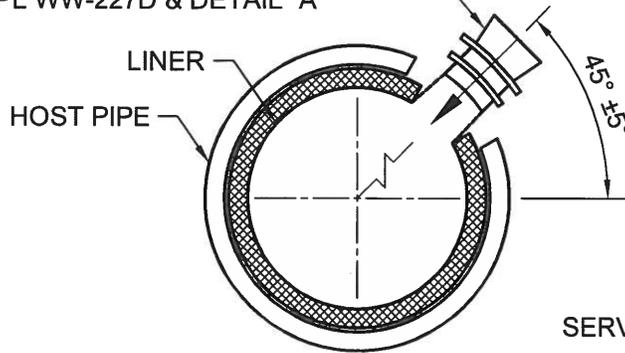
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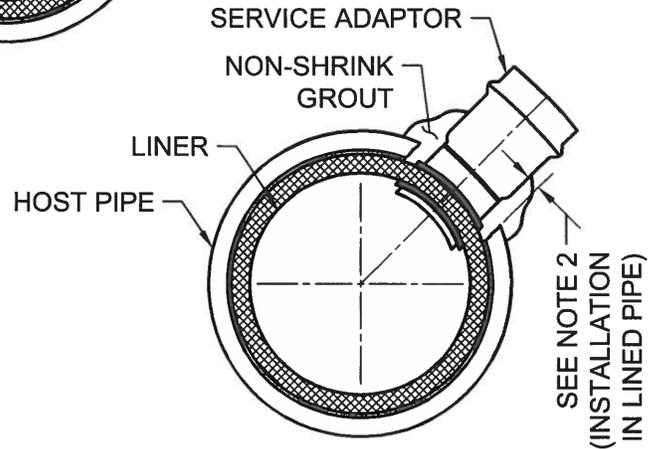
DEEP SERVICE CONNECTION

CITY OF AUSTIN AUSTIN WATER		SINGLE AND DOUBLE WASTEWATER SERVICE CONNECTION	
RECORD COPY SIGNED JEFF A. KYLE	11/07/2018 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-01C 3 OF 4

SERVICE ADAPTOR CONSISTING OF SINGLE-BODY GASKETED BELL HAVING SDR 26 PVC HUB, RUBBER SLEEVE AND STAINLESS STEEL BAND. SEE SPL WW-227D & DETAIL "A"



DETAIL "A"



DETAIL "B"

INSTALLATION IN LINED PIPE:

1. MARK LOCATION OF TAP.
2. BREAK & REMOVE HOST PIPE SO THAT OPENING IS AT LEAST 2" BUT NO MORE THAN 3" WIDER THAN DIAMETER OF THE SERVICE ADAPTOR.
3. DO NOT DAMAGE LINER.
4. CORE HOLE THROUGH LINER USING ADAPTOR MANUFACTURER RECOMMENDED BIT.
5. INSTALL SERVICE ADAPTOR.
6. HOLES CUT IN HOST PIPE SHALL BE PACKED WITH NON-SHRINK GROUT (ASTM C1107 GRADE). SEE DETAIL "B"

NOTES:

1. USE ONLY TO TAP EXISTING LINED PIPE.
2. SEE APPROPRIATE STD. FOR SERVICE LINE INFORMATION.
3. THE EDGE OF THE CORE HOLE MUST BE AT LEAST 3' FROM THE ENDS OF THE PIPE, ANY OTHER CORE SERVICE CONNECTIONS, AND ANY FITTINGS.
4. FOR DEEP SERVICE APPLICATIONS SEE SHEET 3 OF 4, EXCEPT SUBSTITUTE A CORED HOLE, AND SERVICE ADAPTOR FOR THE TEE OR WYE.
5. SERVICE CONNECTIONS TO MANHOLES MUST BE MADE USING A PIPE-TO-MANHOLE CONNECTOR WHICH LIMITS THE PIPE SLOPE INTO THE MANHOLE TO 12% MAX.

6" WASTEWATER CONNECTION TO EXISTING LINED MAIN

CITY OF AUSTIN AUSTIN WATER		SINGLE AND DOUBLE WASTEWATER SERVICE CONNECTION	
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