

RULE NO.: R161-22.12**NOTICE OF PROPOSED RULE****POSTING DATE: October 5, 2022**

The Director of the Department of Austin Water proposes to adopt the following rule on or after November 7, 2022.

Comments on the proposed rule are requested from the public. Comments should be submitted to Mr. Eric Langhout, P.E.; Austin Water, 3907 S. Industrial Dr., Suite 236, Austin, Texas 78744, 512-972-0073, or via email at Eric.Langhout@austintexas.gov. To be considered, comments must be submitted before November 7, 2022. A summary of the written comments received will be included in the notice of rule adoption that must be posted for the rule to become effective.

An affordability impact statement regarding the proposed rule has been obtained and is available for inspection or copying at the address noted in the preceding paragraph.

EFFECTIVE DATE OF PROPOSED RULE

A rule proposed in this notice may not become effective before the effective date established by a separate notice of rule adoption. A notice of rule adoption may not be posted before November 7, 2022 (the first business day following the 32nd day after the date of this notice) or not after December 14, 2022 (the 70th day after the date of this notice).

If a proposed rule is not adopted on or before December 14, 2022, it is automatically withdrawn and cannot be adopted without first posting a new notice of a proposed rule.

TEXT OF PROPOSED RULE

The text of the proposed rule, indicating changes from the current text, is attached to this notice.

BRIEF EXPLANATION OF PROPOSED RULE

R161-22.12: Proposed revision to Standards 512-AW-01, 512-AW-02, and 520S-17

Rule 1 – Standards 512-AW-01, 512-AW-02, and 520S-17

1. Standard 512-AW-01 – Create a new Standard for Dual PRV Stations.
2. Standard 512-AW-02 - Create a new Standard for Fire Lines Meters.
3. Standard 520S-17 – Discontinue this Standard as it is being replaced with Standard 512-AW-02.

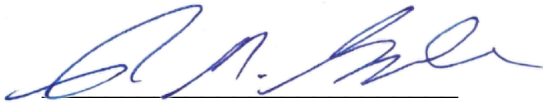
AUTHORITY FOR ADOPTION OF PROPOSED RULE

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 adopt this rule is established in Section 552.001 of the Texas Local Government Code, Section 552.017 of the Texas Local Government Code, City Code 15-9-9 and Chapter 15 of the City Code.

CERTIFICATION BY CITY ATTORNEY

By signing this Notice of Proposed Rule R161-22.12, the City Attorney certifies 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



Robert Goode, P.E., Interim Director
Austin Water

Date: 9/19/2022

Deborah Thomas for

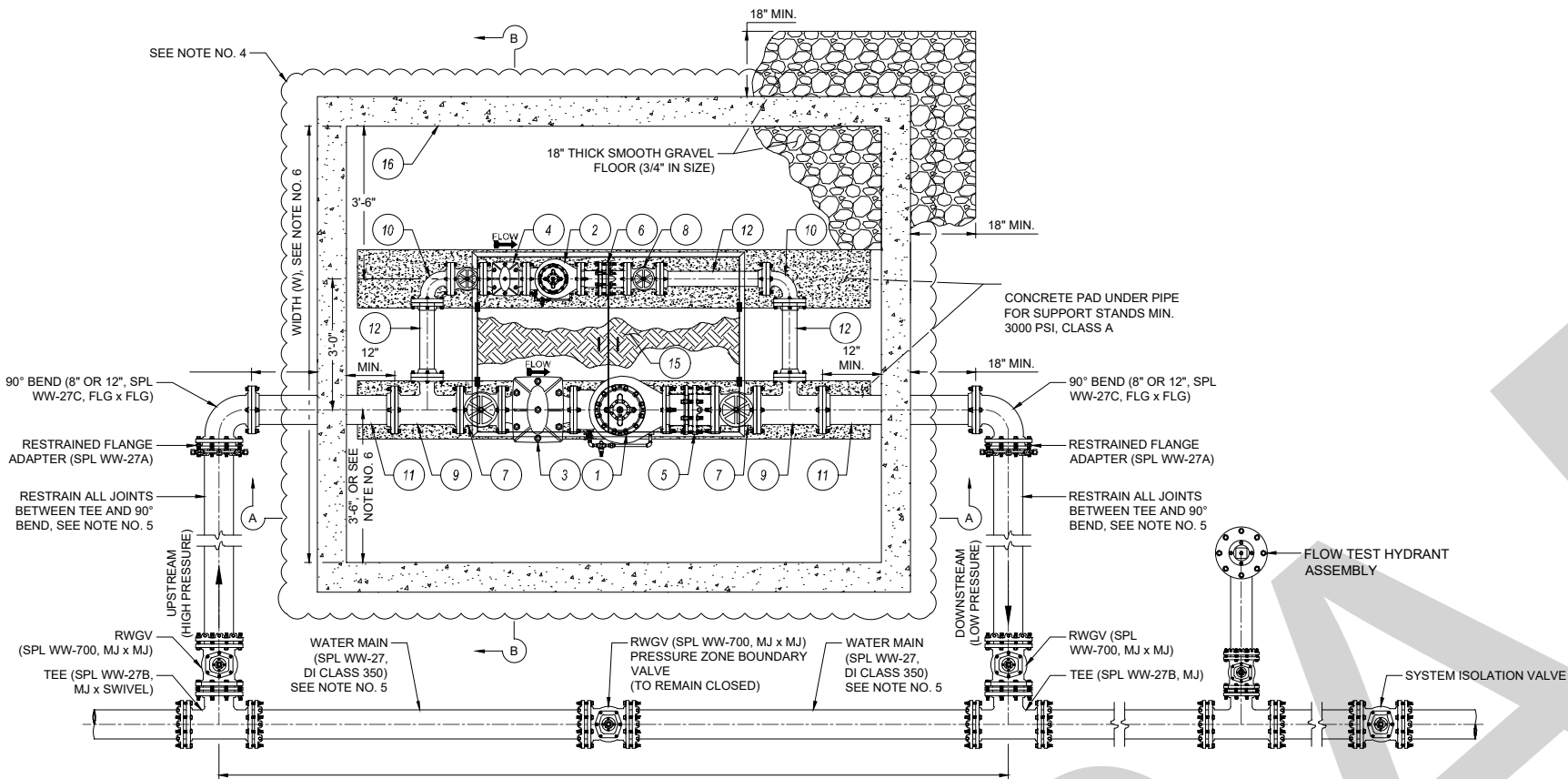
Anne L. Morgan
City Attorney

Date: 9/27/2022

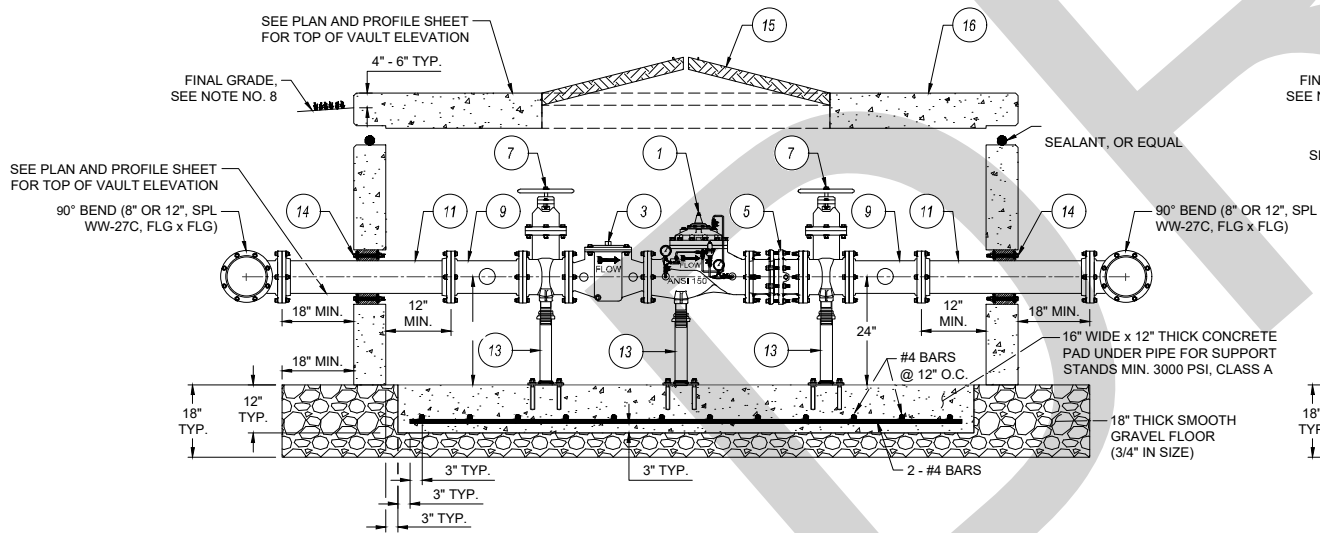
SUMMARY OF 4th QUARTER - 2022 STANDARD

Rule 1 – Standards 512-AW-01, 512-AW-02, and 520S-17

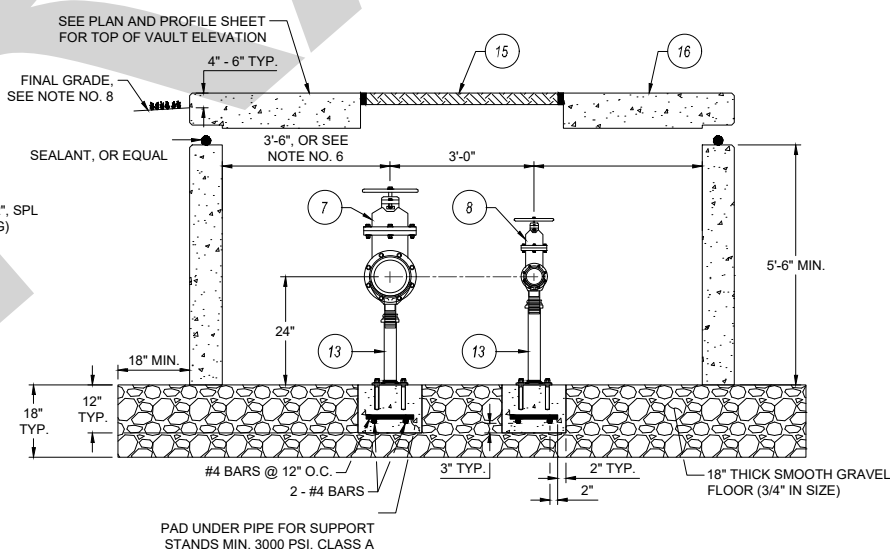
1. Standard 512-AW-01 – Create a new Standard for Dual PRV Stations.
2. Standard 512-AW-02 - Create a new Standard for Fire Lines Meters.
3. Standard 520S-17 – Discontinue this Standard as it is being replaced with Standard 512-AW-02.



PLAN VIEW



SECTION A-A VIEW



SECTION B-B VIEW

* 8"x4" OR 12"x4" PRV STATION MATERIAL LIST			
ITEM	DESCRIPTION	SIZE	TYPE
1	PRESSURE REDUCING VALVE PER COA SPL WW-319 NOTE: PILOT ARRANGEMENTS SHOWN FOR ILLUSTRATION ONLY	8" OR 12"	FLG x FLG
2	PRESSURE REDUCING VALVE PER COA SPL WW-319 NOTE: PILOT ARRANGEMENTS SHOWN FOR ILLUSTRATION ONLY	4"	FLG x FLG
3	STRAINER PER COA SPL WW-319A	8" OR 12"	FLG x FLG
4	STRAINER PER COA SPL WW-319A	4"	FLG x FLG
5	DISMANTLING JOINT PER COA SPL WW-27J	8" OR 12"	FLG x FLG
6	DISMANTLING JOINT PER COA SPL WW-27J	4"	FLG x FLG
7	RESILIENT-SEATED GATE VALVE (w/HAND WHEEL) PER COA SPL WW-700	8" OR 12"	FLG x FLG
8	RESILIENT-SEATED GATE VALVE (w/HAND WHEEL) PER COA SPL WW-700	4"	FLG x FLG
9	TEE PER COA SPL WW-27C	8"x4" OR 12"x4"	FLG x FLG
10	90° BEND PER COA SPL WW-27C	4"	FLG x FLG
11	DUCTILE IRON CLASS 53 PIPE PER COA SPL WW-27E	8" OR 12"	FLG x FLG
12	DUCTILE IRON CLASS 53 PIPE PER COA SPL WW-27E	4"	FLG x FLG
13	PIPE SADDLE SUPPORT AND STANCHION PER COA SPL WW-614B (USE 5/8" DIA. x 6" LONG STAINLESS STEEL WEDGE-ALL ANCHOR, TYP.)	NA	NA
14	LINK-SEAL MODULAR SEALS SERIES LS-500 FOR 8"x4" OR LS-650 FOR 12"x4" w/STAINLESS STEEL HARDWARE, OR EQUAL	NA	NA
15	48" x 72" ACCESS HATCH PER COA SPL WW-614A	NA	NA
16	CONCRETE VAULT PER COA SPL WW-298 w/8"x4" PRV OR 12"x4" PRV	10'x12' OR 10'x15'	NA

* SEE NOTE No. 4

** PRV STATION INFORMATION					
UPSTREAM (HIGH PRESSURE)		DOWNSTREAM (LOW PRESSURE)		UPSTREAM (HIGH PRESSURE)	DOWNSTREAM (LOW PRESSURE)
ZONE	HGL	ZONE	HGL	___ PSI	4" PRV 8" OR 12" PRV
___	___	___	___	___	___

** DESIGN ENGINEER TO INCLUDE PROJECT SPECIFIC PRV STATION INFORMATION AS PROVIDED BY AUSTIN WATER

- NOTES:
- CONCRETE VAULT SHALL NOT BE INSTALLED IN A TRAFFIC AREA.
 - HIGH STRENGTH LOW ALLOY (HSLA) BOLTS AND NUTS USED THROUGHOUT ASSEMBLY.
 - FULL FACE 1/8" THICK RED RUBBER GASKETS USED THROUGHOUT ASSEMBLY.
 - ALL ITEMS IN MATERIAL LIST, INCLUDING VAULT AND ALL COMPONENTS WITHIN VAULT, TO BE IN COMPLIANCE WITH ITEM No. 512, PRE-CAST WATER UTILITY VAULTS. ALL PIPING, VALVES AND APPURTENANCES OUTSIDE VAULT TO BE SHOWN IN PLAN AND PROFILE SHEET, AND SHALL BE IN COMPLIANCE WITH ITEM Nos. 510 AND 511.
 - ALL WATER MAIN PIPE BETWEEN TEES SHALL BE MECHANICALLY RESTRAINED DUCTILE IRON. IN ADDITION, ALL PIPE, VALVES, AND FITTINGS BETWEEN WATER MAIN AND PRV ASSEMBLY SHALL BE RESTRAINED BY USE OF MECHANICAL OR FLANGED CONNECTIONS, AS SHOWN IN PLAN VIEW, THIS SHEET.
 - IF NECESSARY, WALL PENETRATION LOCATION IS ALLOWED TO MOVE HORIZONTALLY ONLY BETWEEN W/3 AND W/3 IN ACCORDANCE WITH SPL WW-298. MINIMUM 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PRV COMPONENTS.
 - ALL BURIED PIPE AND FITTINGS SHALL BE BEDDED, BACKFILLED, AND WRAPPED IN POLYETHYLENE ENCASUREMENT IN ACCORDANCE WITH COA STANDARDS.
 - THE TOP OF THE VAULT SHALL BE AT AN ELEVATION SUCH THAT THE SURROUNDING GROUND SLOPES AWAY FROM THE VAULT. ADDITIONAL DRAINAGE CONSIDERATIONS SUCH AS CONNECTION OF VAULT DRAINAGE TO STORM SEWER, LATERAL DRAIN LINES FROM GRAVEL FLOOR, OR OTHER MEANS SHALL BE REQUIRED IF CONDITIONS CAUSE WATER TO COLLECT IN VAULT.

USE OF THIS STANDARD

THIS STANDARD DRAWING ONLY APPLIES TO PRV STATION VAULTS SATISFYING BOTH OF THE FOLLOWING STIPULATIONS; OTHERWISE, A PROJECT-SPECIFIC DESIGN MUST BE PREPARED. THE VAULT ITSELF MUST BE DESIGNED BY A TEXAS-LICENSED PROFESSIONAL ENGINEER (STRUCTURAL).

- THE CONDITIONS AT THE SITE OF THE PROPOSED PRV STATION, THE LOADS AFFECTING A PRE-CAST CONCRETE VAULT AT THAT SITE, AND THE COMPONENTS AND PHYSICAL FEATURES OF THE VAULT FOR THAT SITE ARE ALL ADEQUATELY AND RELIABLY REPRESENTED BY THE STRUCTURAL DESIGN CRITERIA, DESIGN LOADS, AND DETAILS INCLUDED WITH SPL WW-298.
- THE PIPING AND VALVES FOR THE PROPOSED PRV STATION ARE THE SAME MATERIAL, TYPE, SIZE, AND ORIENTATION AS THOSE SHOWN IN THIS STANDARD.

CITY OF AUSTIN
AUSTIN WATER

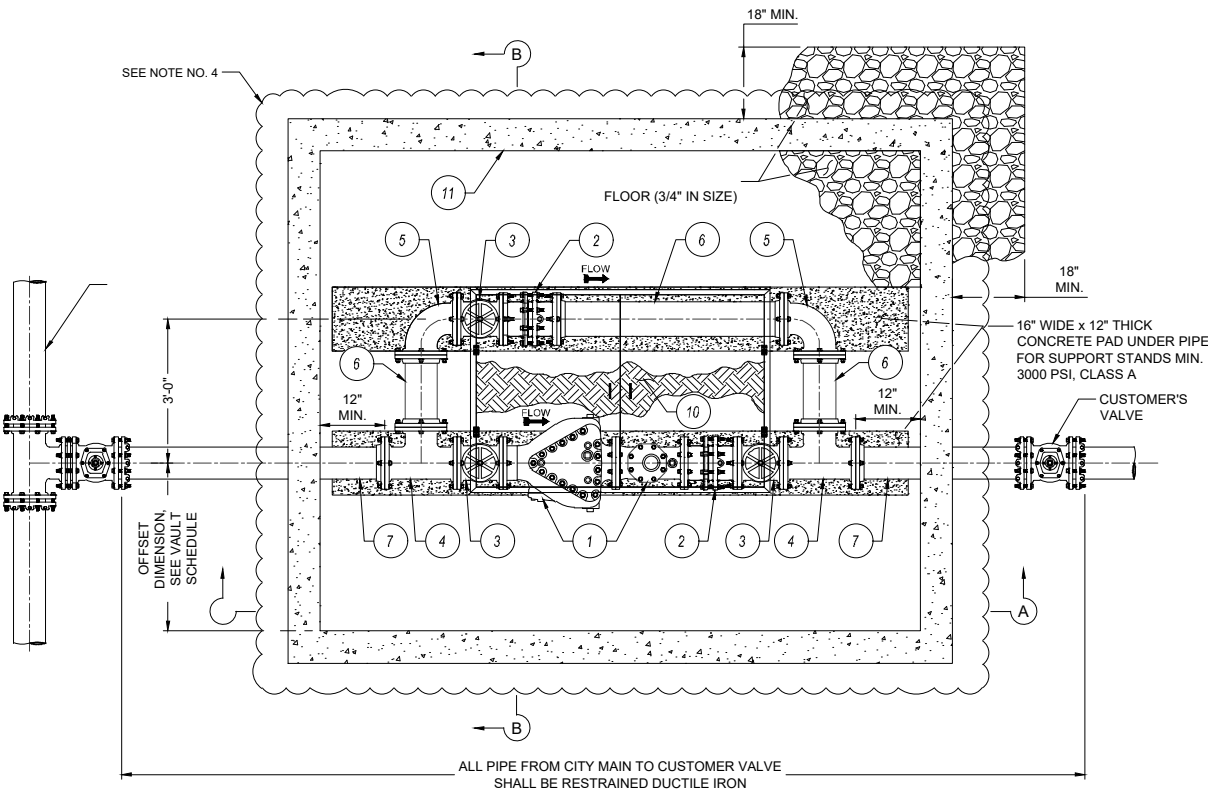
DRAFT 06/30/2022

ADOPTED

REDUCING VALVE STATIONS

THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.

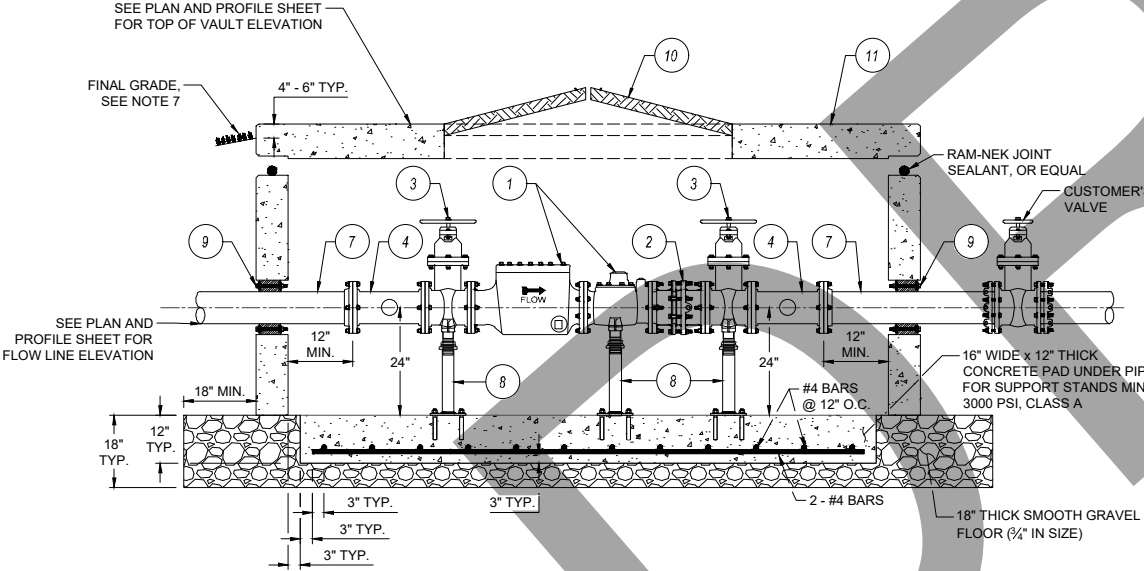
STANDARD NO.
512-AW-01
1 OF 1



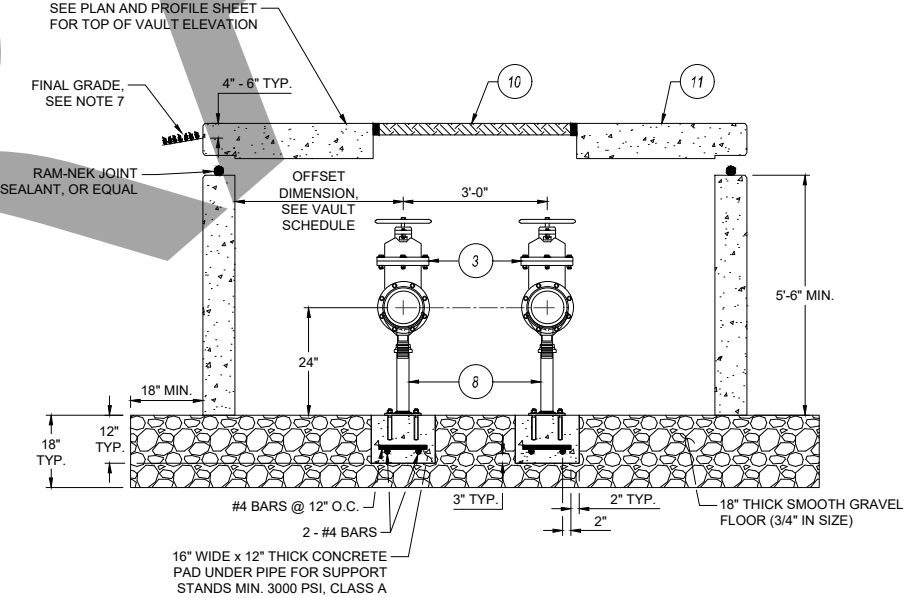
PLAN VIEW

6", 8" OR 10" SENSUS OMNI F2 FIRE LINE METER MATERIAL LIST			
ITEM	DESCRIPTION	SIZE	TYPE
1	FIRE LINE METER AND STRAINER (PROVIDED BY AUSTIN WATER)	6", 8" OR 10"	FLG x FLG
2	DISMANTLING JOINT PER COA SPL WW-27J	6", 8" OR 10"	FLG x FLG
3	RESILIENT-SEATED GATE VALVE (w/HAND WHEEL) PER COA SPL WW-700	6", 8" OR 10"	FLG x FLG
4	TEE PER COA SPL WW-27C	6", 8" OR 10"	FLG x FLG
5	90° BEND PER COA SPL WW-27C	6", 8" OR 10"	FLG x FLG
6	DUCTILE IRON CLASS 53 PIPE PER COA SPL WW-27E	6", 8" OR 10"	FLG x FLG
7	DUCTILE IRON CLASS 53 PIPE PER COA SPL WW-27E	6", 8" OR 10"	FLG x PE
8	PIPE SADDLE SUPPORT AND STANCHION PER COA SPL WW-614B (USE 5/8" DIA. x 6" LONG STAINLESS STEEL WEDGE-ALL ANCHOR, TYP.)	NA	NA
9	LINK-SEAL MODULAR SEALS SERIES LS-525 FOR 6" PIPE, LS-500 FOR 8" PIPE AND LS-650 FOR 10" PIPE w/STAINLESS STEEL HARDWARE, OR EQUAL	NA	NA
10	48" x 72" ACCESS HATCH PER COA SPL WW-614A	NA	NA
11	CONCRETE VAULT PER COA SPL WW-298 (SEE VAULT SCHEDULE)	NA	NA

FIRE LINE METER SIZE	VAULT SIZE (INSIDE DIMENSION)	OFFSET DIMENSION
6"	8' x 12'	3'-0"
8"	10' x 12'	3'-6"
10"	10' x 15'	3'-6"



SECTION A-A VIEW



SECTION B-B VIEW

- NOTES:
- 1. CONCRETE VAULT SHALL NOT BE INSTALLED IN A TRAFFIC AREA.
 - 2. HIGH STRENGTH LOW ALLOY (HSLA) BOLTS AND NUTS USED THROUGHOUT ASSEMBLY.
 - 3. FULL FACE 1/8" THICK RED RUBBER GASKETS USED THROUGHOUT ASSEMBLY.
 - 4. ALL ITEMS IN MATERIAL LIST, INCLUDING VAULT AND ALL COMPONENTS WITHIN VAULT, TO BE IN COMPLIANCE WITH ITEM No. 512, PRE-CAST WATER UTILITY VAULTS. ALL PIPING, VALVES AND APPURTENANCES OUTSIDE VAULT TO BE SHOWN IN PLAN AND PROFILE SHEET, AND SHALL BE IN COMPLIANCE WITH ITEM Nos. 510 AND 511.
 - 5. IF NECESSARY, WALL PENETRATION LOCATION IS ALLOWED TO MOVE HORIZONTALLY IN ACCORDANCE WITH SPL WW-298. MINIMUM 18" CLEARANCE SHALL BE PROVIDED BETWEEN VAULT WALL AND BYPASS PIPING OR FIRE LINE METER COMPONENTS, UNLESS NOTED OTHERWISE.
 - 6. ALL BURIED PIPE AND FITTINGS SHALL BE BEDDED, BACKFILLED, AND WRAPPED IN POLYETHYLENE ENCASEMENT IN ACCORDANCE WITH COA STANDARDS.
 - 7. THE TOP OF THE VAULT SHALL BE AT AN ELEVATION SUCH THAT THE SURROUNDING GROUND SLOPES AWAY FROM THE VAULT. ADDITIONAL DRAINAGE CONSIDERATIONS SUCH AS CONNECTION OF VAULT DRAINAGE TO STORM SEWER, LATERAL DRAIN LINES FROM GRAVEL FLOOR, OR OTHER MEANS SHALL BE REQUIRED IF CONDITIONS CAUSE WATER TO COLLECT IN VAULT.
 - 8. BYPASS AND MAIN PIPE SHALL BE SAME DIAMETER.

USE OF THIS STANDARD

THIS STANDARD DRAWING ONLY APPLIES TO FIRE LINE METER VAULTS SATISFYING BOTH OF THE FOLLOWING STIPULATIONS; OTHERWISE, A PROJECT-SPECIFIC DESIGN MUST BE PREPARED. THE VAULT ITSELF MUST BE DESIGNED BY A TEXAS-LICENSED PROFESSIONAL ENGINEER (STRUCTURAL).

1. THE CONDITIONS AT THE SITE OF THE PROPOSED FIRE LINE METER, THE LOADS AFFECTING A PRE-CAST CONCRETE VAULT AT THAT SITE, AND THE COMPONENTS AND PHYSICAL FEATURES OF THE VAULT FOR THAT SITE ARE ALL ADEQUATELY AND RELIABLY REPRESENTED BY THE STRUCTURAL DESIGN CRITERIA, DESIGN LOADS, AND DETAILS INCLUDED WITH SPL WW-298.
2. THE PIPING AND VALVES FOR THE PROPOSED FIRE LINE METER ARE THE SAME MATERIAL, TYPE, SIZE, AND ORIENTATION AS THOSE SHOWN IN THIS STANDARD.

CITY OF AUSTIN
AUSTIN WATER

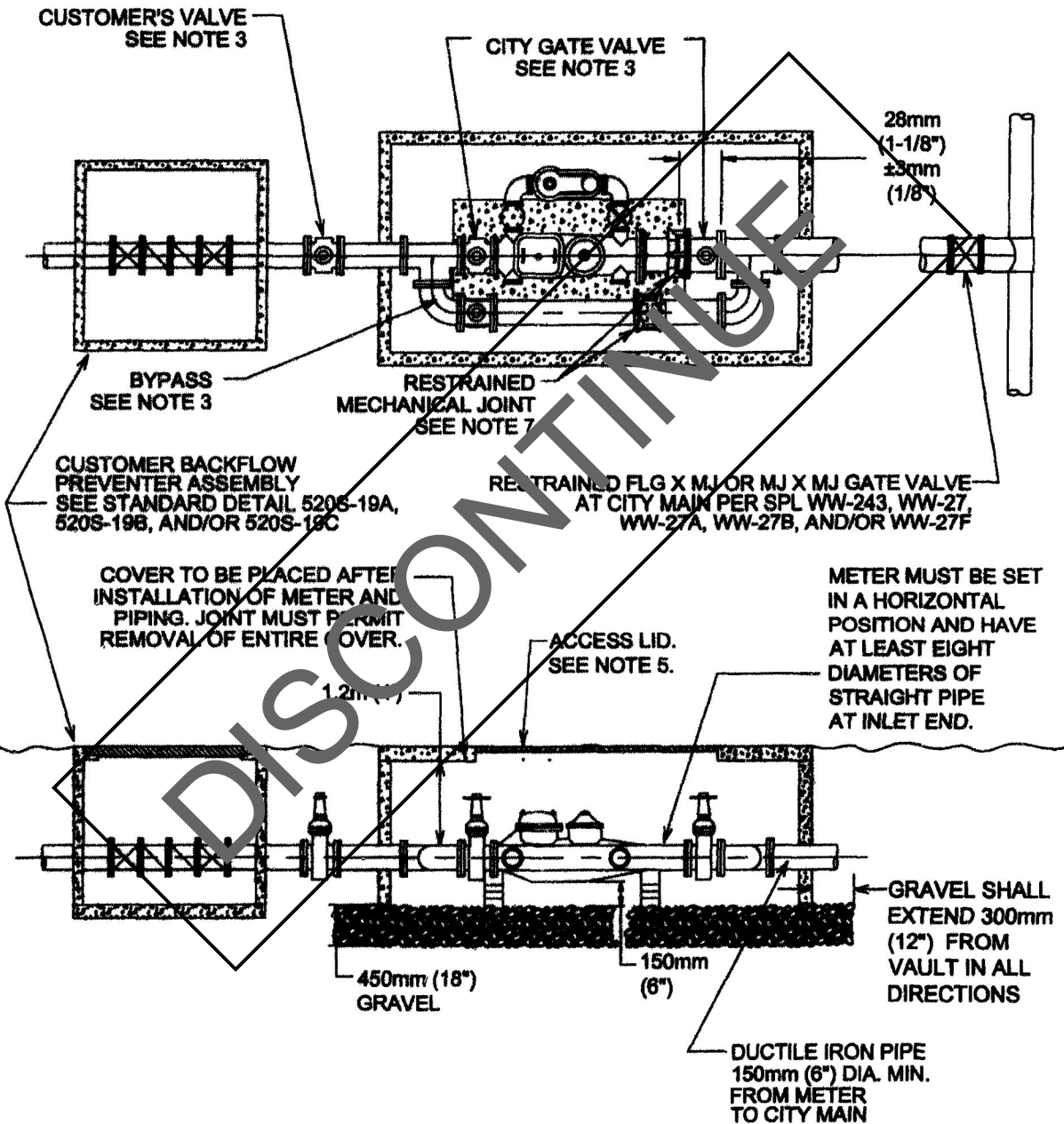
DRAFT 06/30/2022

ADOPTED

THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.

STANDARD NO.
512-AW-02
1 OF 1

ALL PIPE FROM CITY MAIN TO CUSTOMER VALVE
SHALL BE RESTRAINED. SEE NOTE 11 ON PAGE 2 OF 3.



CITY OF AUSTIN
AUSTIN WATER UTILITY

FIRE LINE METER INSTALLATION

Kathie Flowers 8/31/2011

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

STANDARD NO.

520S-17

1 OF 3

NOTES:

1. VAULT PER SPL WW-298 OR APPROVED EQUAL. VAULT SHALL INCLUDE THRUST COLLAR WALL PIPES IF CAST IN PLACE. ALL PIPE SHALL BE RESTRAINED REGARDLESS IF VAULT PRE-CAST OR CAST IN PLACE, RESTRAINED BOTH WAYS. H2O LOADING REQUIRED FOR ALL VAULTS.
2. METER VAULT SHALL BE BEHIND CURB AND/OR WALK, AND NOT IN VEHICULAR TRAFFIC AREA.
3. MAIN LINE AND BYPASS GATE VALVES WILL BE RESILIENT SEAT TYPE WITH CORROSION RESISTANT FUSION BONDED EPOXY COATING INSIDE AND OUTSIDE, NON-RISING STEM. MAIN LINE VALVES SHALL HAVE HAND-WHEELS. BYPASS VALVES SHALL HAVE HAND-WHEELS. PROPERTY OWNER'S VALVE SHALL NOT BE LOCATED IN THE CITY OF AUSTIN METER VAULT. HAND-WHEEL EXCEPTION IF HAND-WHEEL IS NOT LOCATED WITHIN 300mm (12") HORIZONTALLY OF ACCESS HATCH, GATE VALVE SHALL BE INSTALLED WITH OPERATING NUT ACCESSIBLE FROM RING AND COVER LOCATED ON VAULT LID PER SPL WW-622.
4. APPROVAL REQUIRED IF HEIGHT OF VAULT EXCEEDS 1.8m (72"). CONTACT THE PIPELINE ENGINEERING DIVISION OF AUSTIN WATER UTILITY. METER SHALL BE LEGIBLE TO READ FROM TOP OF VAULT.
5. ACCESS LID SHALL BE 1.2 m x 1.8 m (4'x6") DOUBLE LEAF PER SPL WW-614 (H2O LOADING REQUIRED) WITH SLAM LOCK BY HALLIDAY PRODUCTS OR APPROVED EQUAL. LOCK TO INCLUDE SECURITY OPERATOR.
6. ALL BURIED PIPE SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY CITY OF AUSTIN STANDARD SPECIFICATIONS 510.3 (14); BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY 510.3 (15). ALL BURIED PIPE SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT PER SPL WW-27D.
7. FITTINGS IN VAULT SHALL BE FLANGED WITH EXCEPTION OF ONE RESTRAINED MJ ON MAIN AND BYPASS LINES EACH PER SPL WW-27A.
8. VOIDS AT PIPE WALL HOLES SHALL BE FILLED WITH NON-SHRINK GROUT, OR OTHER SEAL OR SEALANT PER SPL WW-146A.
9. THE TOP OF THE METER VAULT SHALL BE AT AN ELEVATION SUCH THAT THE SURROUNDING GROUND SLOPES AWAY FROM THE VAULT. ADDITIONAL DRAINAGE CONSIDERATION SUCH AS CONNECTION OF VAULT TO STORM SEWER, LATERAL DRAIN LINES FROM GRAVEL BED OR OTHER MEANS SHALL BE REQUIRED IF CONDITIONS CAUSE WATER TO COLLECT IN VAULT.
10. BYPASS AND MAIN PIPE SHALL BE SAME DIAMETER. ALL PIPE FROM CITY MAIN TO CUSTOMERS VALVE SHALL BE D.I.
11. ALL EQUIPMENT IN VAULT SHALL BE REMOVABLE WITHOUT ADDITIONAL RESTRAINT OR SUPPORT OF PIPE.
12. ALL CLEARANCES INDICATED ARE MINIMUM, ADDITIONAL CONSIDERATION SHALL BE MADE FOR ACCESS TO ALL COMPONENTS IN VAULT. ALL CLEARANCES SHALL BE INCLUDED ON PLANS SUBMITTED FOR APPROVAL TO AUSTIN WATER UTILITY.
13. LOCATION OF ACCESS DOORS ARE SHOWN TO INDICATE POSSIBLE LOCATION. AN ENGINEER LICENSED BY THE STATE OF TEXAS SHALL DETERMINE SIZE OF VAULT, LOCATION OF ACCESS DOOR AND/OR VALVE CASINGS APPROPRIATE FOR EQUIPMENT, ACCESS, MAINTENANCE AND CLEARANCES. METER VAULTS PER SPL WW-298 ARE ACCEPTABLE IF ALL DESIGN PARAMETERS ARE MET AND SO DETERMINED BY TEXAS LICENSED ENGINEER.

CITY OF AUSTIN
AUSTIN WATER UTILITY

FIRE LINE METER INSTALLATION

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

STANDARD NO.

520S-17

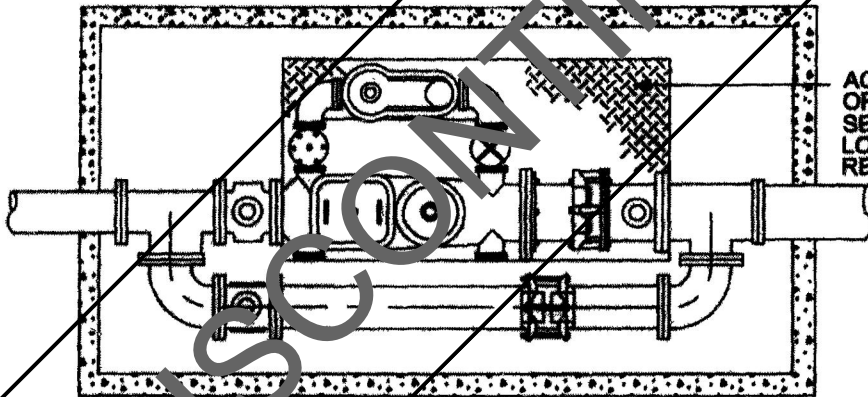
2 OF 3

Kathie L. Brown 8/31/2011

NOTES:

14. IN ALL CASES, MINIMUM CLEARANCE FROM WALL TO TEST PORTS SHALL BE 600mm (24"). LICENSED ENGINEER SHALL CONFIRM WITH METER MANUFACTURER LOCATION OF TEST PORTS PRIOR TO SUBMITTAL OF PLANS TO AUSTIN WATER UTILITY FOR APPROVAL. PLANS SHALL INDICATE LOCATION OF TEST PORTS.
15. VAULT SIZES INDICATED ON WATER METER SCHEDULE ARE SUGGESTIONS. ACTUAL EQUIPMENT, PIPE LAYOUT, CLEARANCE, ACCESS AND OTHER INFORMATION SHALL BE TAKEN INTO CONSIDERATION BY AN ENGINEER LICENSED BY THE STATE OF TEXAS.

MINIMUM CLEARANCES	
6"	-FLOOR TO ANY PART OF FIRELINE METER ASSEMBLY -INTERIOR WALL TO FLANGE.
12"	-INTERIOR WALL TO PARALLEL PIPE, VALVE OR METER. -ALL AROUND FIRELINE METER ASSEMBLY
24"	-INTERIOR WALL TO TEST PORTS
48"	-TOP OF PIPE TO INTERIOR TOP OF VAULT



ACCESS DOOR
OPENING MAY VARY,
SEE NOTES FOR
LOCATION
REQUIREMENTS.

WATER METER SCHEDULE

WATER METER SIZE	SIZE OF BY-PASS	BY-PASS VALVE W/HANDWHEEL	MAIN LINE VALVE WITH HANDWHEEL	VAULT SIZE PER SPL WW-298. SEE NOTE 15
150 mm x 50 mm (6" x 2")	150 mm (6")	150 mm (6")	150 mm (6")	2.4m x 3.6m (8' x 12')
200 mm x 50 mm (8" x 2")	200 mm (8")	200 mm (8")	200 mm (8")	3.0m x 3.6m (10' x 12')
250mm x 50mm (10" x 2")	250 mm (10")	250 mm (10")	250 mm (10")	3.0m x 4.5m (10' x 15')

CITY OF AUSTIN
AUSTIN WATER UTILITY

FIRE LINE METER INSTALLATION

Kathie Flowers 8/31/2011

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

STANDARD NO.
520S-17
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