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- The drawing consists of two views: a side elevation (top) and a cross-section (bottom).
Side Elevation Labels:
 - WATER MAIN: Indicated by a break symbol on the left.
 - SADDLE & STOP: The connection point on the water main.
 - 1" SERVICE: The horizontal pipe extending from the saddle.
 - LOCKABLE SHUTOFF: A valve on the service line.
 - METER NUT: The connection between the service line and the meter.
 - 18" DIA.: The diameter of the meter.
 - 12"-18": The distance from the meter to the property line.
 - RIGHT-OF-WAY EASEMENT LINE: A vertical line indicating the property boundary.
 - PRIVATE PROPERTY: The area to the right of the easement line.
 - VARIES: A dimension line indicating a variable distance from the water main to the meter.
 - METER SETTER & BOX TO BE SET AT FINAL GRADE OF SITE: The meter assembly shown in profile.
- Cross-Section Labels:**
 - FINAL GRADE: The ground surface level.
 - METER BY PARTICIPATING UTILITY: The meter assembly shown in cross-section.
 - 6" STONE VDOT 57: The bedding material for the meter.
 - 15": The depth of the bedding layer.
 - 2'-0": The height of the meter box above the bedding.
 - 15": The depth of the bedding layer below the meter.
 - CTS COMPRESSION CONNECTION: The connection between the meter and the service line.
 - 1" SERVICE: The horizontal pipe shown in cross-section.
 - 30°-45°: The angle of the pipe from the vertical.
 - 3'-0": The vertical distance from the ground to the top of the meter box.
 - 1" CORPORATION STOP WITH CTS COMPRESSION CONNECTION SEE NOTE #5: The connection point on the corporation stop.
 - TRACER WIRE SEE GENERAL DETAIL: A wire connected to the corporation stop.
 - EXISTING SERVICE LINE: The vertical pipe on the right side of the meter.

**SINGLE RESIDENTIAL
WATER SERVICE
(REPLACEMENT OF EXISTING SERVICE)**

01/01/12

-
- VARIES
- 18" DIA.
- 12"-18"
- PROPERTY CORNER
- SADDLE & STOP
- 1" SERVICE
- U BRANCH
- LOCKABLE SHUTOFF (TYP.)
- DUAL CHECK VALVE
- METER SETTER & BOX TO BE SET AT FINAL GRADE OF SITE
- FINAL GRADE
- METER BY PARTICIPATING UTILITY
- 6" STONE VDOT 57
- 3/4" Ø x 6' PIG TAIL TO BE CAPPED & MARKED OR STAKED
- 15"
- 2'-0"
- 15"
- 3'-0"
- 30°-45°
- 1" SERVICE
- TRACER WIRE SEE GENERAL DETAIL
- 1" CORPORATION STOP WITH CTS COMPRESSION CONNECTION SEE NOTE #5

**DOUBLE RESIDENTIAL
WATER SERVICE**
(LINE PRESSURE UNDER 120 PSI)

01/01/12 W-4

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WATER LINE VALVE
& VAULT

01/01/12

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PERMANENT END
OF LINE BLOW-OF ASSEMBLY

01/01/12

-

TEMPORARY END OF LINE
BLOW-OFF ASSEMBLY

01/01/13

-
- PAVEMENT
- ADJUSTMENT RING (WHEN REQUIRED)
- 2" THREADED NIPPLE WITH FINGER TIGHT CAP
DRILL 1/4" Ø HOLE IN CAP
- 2" GATE VALVE WITH 2" SQUARE HEAD
- 2" CORPORATION STOP MUELLER
H-15000 OR EQUIVALENT
- 6" MIN.
- WATER MAIN
- 2" TAPPING SADDLE
- CAPITOL FOUNDRY MH 201
NON-WATERTIGHT FRAME & COVER
LABELED "WATER"
- FINISHED GRADE
- 12"-18"
- 12" MAX. VERTICAL
- GROUND BAR
SEE GENERAL DETAIL
- PRECAST WATER VALVE VAULT OR PRECAST MANHOLE SECTION(S)
WHEN DEPTH EXCEEDS 5'
- TRACER & GROUND WIRES
SEE GENERAL DETAIL
- 6" MINIMUM VDOT 57
- GROUND ROD
SEE GENERAL DETAIL

IN-LINE BLOW-OFF ASSEMBLY

01/01/12

-
- PAVEMENT
- NON-WATER TIGHT FRAME AND COVER LABELED "WATER"
- FINISHED GRADE
- ADJUSTMENT RING (WHEN REQUIRED)
- COMBINATION AIR VALVE
APCO 143C,
A.R.I. D-040, OR
EQUIVALENT
- PROVIDE SS METAL SCREEN
- COPPER PIPING
- 12" MIN.
- 12" MAX. VERTICAL
- GROUND BAR
SEE GENERAL DETAIL
- PRECAST WATER VALVE
VAULT OR PRECAST
MANHOLE SECTION(S)
WHEN DEPTH EXCEEDS 5'
- 1" CORPORATION
STOP MUELLER
H-15000 OR
EQUIVALENT
- 6" MIN.
- 6" MINIMUM
VDOT 57
- TRACER & GROUND
WIRES SEE GENERAL
DETAIL
- GROUND ROD
SEE GENERAL DETAIL
- SEE NOTE #1
- 1" GATE VALVE
- 1" THREADED LEAD FREE BRASS PIPE
LENGTH AS REQUIRED TO COMPLETE
FULL ASSEMBLY AS SHOWN ABOVE
- 1" CORPORATION
STOP MUELLER
H-15000 OR
EQUIVALENT
- COMPACTED VDOT 57
TO BOTTOM OF VAULT
AS SHOWN ABOVE
- SEE NOTE #1
- FOR DEEP WATERLINES

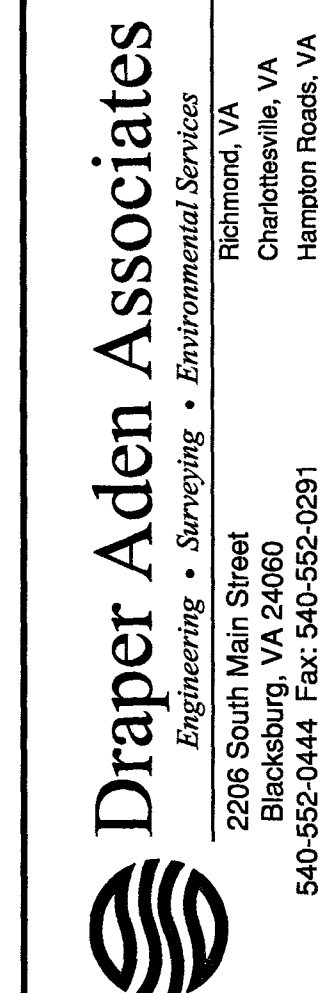
COMBINATION AIR VALVE ASSEMBLY

01/01/12

-
- 1" DIA. PICK HOLE
- A
- A
- PLAN
- 25 1/4"
- 3/4"
- 23 3/4"
- 23 1/2"
- 1 1/2"
- 7 1/2"
- 4 3/4"
- 1/2"
- 2 1/2"
- 1/2"
- 3 3/4"
- 3"
- 3/8"
- 22 1/4"
- 24 1/2"
- 33 1/4"
- 4 3/8"
- 3/4" THREADED ROD
STAINLESS STEEL
- SEE NOTE 1
- 12" MAX.
- 4" MINIMUM (TYP)
- CONE
SECTION

VAULT FRAME
AND COVER

01/01/12



DETAILS

WESTERN VIRGINIA WATER AUTHORITY FY2011
VCWRLF COLLECTION SYSTEM PROJECTS

ROANOKE, VIRGINIA

DESIGNED BY:	LMR
DRAWN BY:	BMC
CHECKED BY:	LMR
SCALE:	NO SCALE
04/14/13	
PROJECT NUMBER:	B11132B-0
D-001	