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- VARIES
- RIGHT-OF-WAY EASEMENT LINE
- PRIVATE PROPERTY
- 18" DIA.
- 12"-18"
- SADDLE & STOP
- 1" SERVICE
- LOCKABLE SHUTOFF
- METER NUT
- METER SETTER & BOX TO BE SET AT FINAL GRADE OF SITE
- FINAL GRADE
- METER BY PARTICIPATING UTILITY
- 6" STONE VDOT 57
- 3'-0"
- 30°-45°
- 1" SERVICE
- 1" CORPORATION STOP WITH CTS COMPRESSION CONNECTION SEE NOTE #4
- 15'
- 2'-0"
- 15'
- CTS COMPRESSION CONNECTION
- EXISTING SERVICE LINE
- TRACER WIRE SEE GENERAL DETAIL

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

W-2

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- Technical drawing illustrating the installation of a water meter and CTS compression connection. The drawing includes a side view (left) and a top view (right).
- Labels and Dimensions:**
- WATER MAIN**: The main water supply line.
 - SADDLE & STOP**: The connection point on the water main.
 - U BRANCH**: The branch line connecting to the meter.
 - LOCKABLE SHUTOFF (TYP.)**: A shut-off valve on the branch line.
 - METER NUT**: The nut connecting the branch to the meter.
 - RIGHT-OF-WAY EASEMENT LINE**: The boundary line for the easement.
 - PRIVATE PROPERTY**: The area beyond the easement line.
 - PROPERTY CORNER**: The corner of the property.
 - METER SETTER & BOX TO BE SET AT FINAL GRADE OF SITE**: The meter assembly.
 - FINAL GRADE**: The ground level at the installation site.
 - METER BY PARTICIPATING UTILITY**: The water meter.
 - 6" STONE VDOT 57**: The bedding material for the meter.
 - CTS COMPRESSION CONNECTION**: The connection to the existing service line.
 - EXISTING SERVICE LINE**: The line being connected to.
 - 1" SERVICE**: The service line from the meter.
 - 30"-45°**: The angle of the service line connection.
 - 1" CORPORATION STOP WITH CTS COMPRESSION**: The connection point on the service line.
 - TRACER WIRE**: A wire for tracing the service line.
 - SEE GENERAL DETAIL**: Reference to a general detail drawing.
 - 15"**: Vertical dimension from final grade to the top of the meter.
 - 2'-0"**: Vertical dimension from the top of the meter to the CTS connection.
 - 15"**: Vertical dimension from the bottom of the meter to the CTS connection.
 - VARIES**: Dimension indicating the distance from the water main to the meter.
 - 18" DIA**: Diameter of the meter.
 - 12"-18"**: Distance from the meter to the property corner.

DOUBLE RESIDENTIAL
WATER SERVICE
(REPLACEMENT OF EXISTING SERVICE)

W-4E

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WATER LINE VALVE
& VAULT

W-9

- [illegible]

IN-LINE BLOW-OFF ASSEMBLY

W-12

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- PAVEMENT
- FINISHED GRADE
- 12" MAX. VERTICAL
- ADJUSTMENT RING (WHEN REQUIRED)
- COMBINATION AIR VALVE
APCO 143C,
A.R.I. D-040,
VAL-MATIC 201C,2
OR EQUIVALENT
- 1" CORPORATION
STOP MUELLER
B-25008, FORD
FB1000-4-G-NL OR
EQUIVALENT
- NON-WATER TIGHT FRAME AND
COVER LABELED "WATER"
- 12" MIN.
- GROUND BAR
SEE GENERAL DETAIL
PROVIDE
SS SCREEN
(CHRISTY'S VC1 OR
APPROVED EQUAL)
- COPPER PIPING
- 12" MIN.
- PRECAST WATER VALVE
VAULT OR PRECAST
MANHOLE SECTION(S)
WHEN DEPTH EXCEEDS 5'
- TRACER & GROUND
WIRES SEE GENERAL
DETAIL
- 6" MIN.
- 6" MINIMUM
VDOT 57
- 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
B-25008, FORD FB1000-4-G-NL OR
EQUIVALENT
- COMPACTED VDOT 57
TO BOTTOM OF VAULT
AS SHOWN ABOVE
- SEE NOTE #1
- WATER MAIN
- WATER MAIN
- FOR DEEP WATERLINES

COMBINATION AIR VALVE ASSEMBLY

W-13

-
- 3/4" STAINLESS STEEL
THREADED RODS (TYP.)
- BUTYL MASTIC (NO MORTAR)
BETWEEN P&C AND M.H. TOP
AND BETWEEN GRADE RINGS
- GROUND BAR
SEE GENERAL DETAIL
- FIRST STEP TO BE 1.5' MAX.
FROM TOP OF M.H.
- BUTYL MASTIC OR GASKETS
MEETING ASTM C443 & ASTM C1244
TESTING STANDARD (NO MORTAR)
- STEPS (TYP.)
- 2'-0" 8" TYP.
- 1' VARIABLE ADJUSTMENT
TO BE INCLUDED IN 10'
MAXIMUM HEIGHT
- 1'-0" Max.
- 4" Min.
- VARIES
- 4'-0" Max.
- VARIES
- 10' MAXIMUM
- VARIES
- 1'-4" Max.
- VARIES
- 2" MINIMUM
SEPARATION
AT CUT OUT
- MANUFACTURED OPENING
AS REQUIRED BY PIPE SIZE
- C OF VALVE FRAME AND COVER
- 6" MINIMUM
VDOT 57
- TRACER WIRE
SEE GENERAL DETAIL
- GROUND ROD

DEEP VALVE
VAULT (MANHOLE)

W-15

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VAULT FRAME
AND COVER

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- VARIES
(NO OBSTRUCTIONS)
- 2 - 2 1/2" NOZZLES
- 1 - 4 1/2" PUMPER NOZZLE (FACING THE ROAD)
- AVK MODEL 2780,
AFC MODEL B-84-B-5,
MUELLER CENTURION
A423, KENNEDY K81D OR
EQUIVALENT.
- 1.6" TO 2.0"
ABOVE CURB
OR EDGE OF
PAVEMENT
- 2'X2'X4" CONCRETE PAD
- VALVE BOX (WI ADAPTOR) IF OUTSIDE
PAVEMENT OR VALVE
VAULT UNDER PAVEMENT
- STANDARD INSTALLATION
INCLUDES FOSTER ADAPTER
OR APPROVED EQUAL
- FINISHED GRADE
- 3" MIN. COVER
- CONTINUOUS SECTION OF PIPE
- CONTINUOUS SECTION OF PIPE
- WATER MAIN
- 0.5 CY CLEAN
STONE VDOT #57
FOR DRAINAGE
- 3/4" DIA. "CORTEN"
(NON-CORROSIVE)
THREADED ROD AND NUTS
TRACER WIRE SEE GENERAL DETAIL
- APPROVED M.J. GLAND RESTRAINT
(i.e. MEGALUGS, FRIP RINGS OR
UNI-FLANGE) SHALL BE USED AT
ALL M.J. FITTINGS
- CONCRETE
THRUST BLOCK
(IF REQUIRED)
- TEE - MAIN
LINE SIZE
x 6" TO VALVE AND
HYDRANT
- CONCRETE BASE AND THRUST
BLOCK (IF REQUIRED) UNDER
UNDISTURBED SOIL, CONCRETE
SHALL NOT COVER HYDRANT
DRAIN
- M.J. FITTINGS SHALL NOT

FIRE HYDRANT ASSEMBLY

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