

A.) A CONSEAL CS - 102 BUTYL RUBBER SEALANT (OR EQUIVALENT) IN THE JOINT.

CENTERED OVER THE EXTERIOR OF THE JOINT.

PRIOR TO SITE RECEIVING WATER SERVICE CONNECTION.

CONCRETE SHALL BE TYPE III AND CONFORM TO ASTM C150.

VOLUME

-2/3 LENGTH -

- VARIABLE -

ACCESS

9. ALL PVC PIPES SHALL EXTEND 5" ABOVE WATER SURFACE.

FOLLOWING:

IRON FRAME & COVER.

L4" MIN.

B.) 24" CONSEAUCS - 212 POLYOLEFIN BACKED EXTERIOR WRAP (OR EQUIVALENT)

GREASE INTERCEPTOR SHALL BE INSPECTED AND APPROVED BY THE PARTICIPATING UTILITY

FORTY-EIGHT (48) HOURS PRIOR TO INSTALLATION, THE CONTRACTOR SHALL COMPLETE THE

B.) FOR UNITS INSTALLED INTO THE WESTERN VIRGINIA WATER AUTHORITY'S SYSTEM:

OCCUR PRIOR TO THE CONTRACTOR COVERING THE GREASE INTERCEPTOR.

10. IF INTERCEPTOR IS SUBJECTED TO TRAFFIC, ACCESS FOR BAFFLE TEES SHALL BE TRAFFIC RATED CAST

L. ALL OTHER DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF ASTM C1613.

A, CONTACT PARTICIPATING UTILITY TO DETERMINE PROPER SUBMITTAL AND INSPECTION PROCEDURE.

1.) SUBMIT SHOP DRAWINGS TO C. ALTICE, 601 S JEFFERSON ST, SUITE 300, ROANOKE, VA 24011.

2.) CALL (540) 597-3460 TO SCHEDULE GREASE INTERCEPTOR INSPECTION. THE INSPECTION SHALL

→4" PIPE VENT

----1/3 LENGTH--

MINIMUM

ACCESS /

DRAWING NOT TO SCALE

S-17

PORT

→ 4" PIPE VENT

ELEVATION

PLAN

ACCESS PORT_

WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

GREASE INTERCEPTOR

Engineering Services 2. Billing name and/or Authorized contact, address, phone #, SSN or Tax ID must be provided with payment to set up 5. Once installed, all water services will be locked in the off position until project is issued Substantial Completion by the Fees valid until: January 1, 2016 Sewer NA \$0.00 \$7,500.00 \$0.00 NA \$250.00 \$7,750.00 . All work performed will be in accordance with the approved plans. Any inspections required by the WVWA will need to * Applicant is responsible for constructing the private portion of the sewer(including clean out) and water services from . Applicant is responsible for confirming that there is at least three feet of fall from the lowest floor served to the top of the • For work being completed by a contractor, please contact WVWA Construction Inspector's office at (540) 537-3460 to * Prior to any excavation in the vicinity of the Authority's water main, please contact WVWA Construction inspector's . This availability letter is based on the telephone conversation with the engineer designing the Murphy gas

Accounting Code:None

Card #:none

Water

\$0.00

\$7,500.00

\$0.00

\$0.00

\$8,000.00

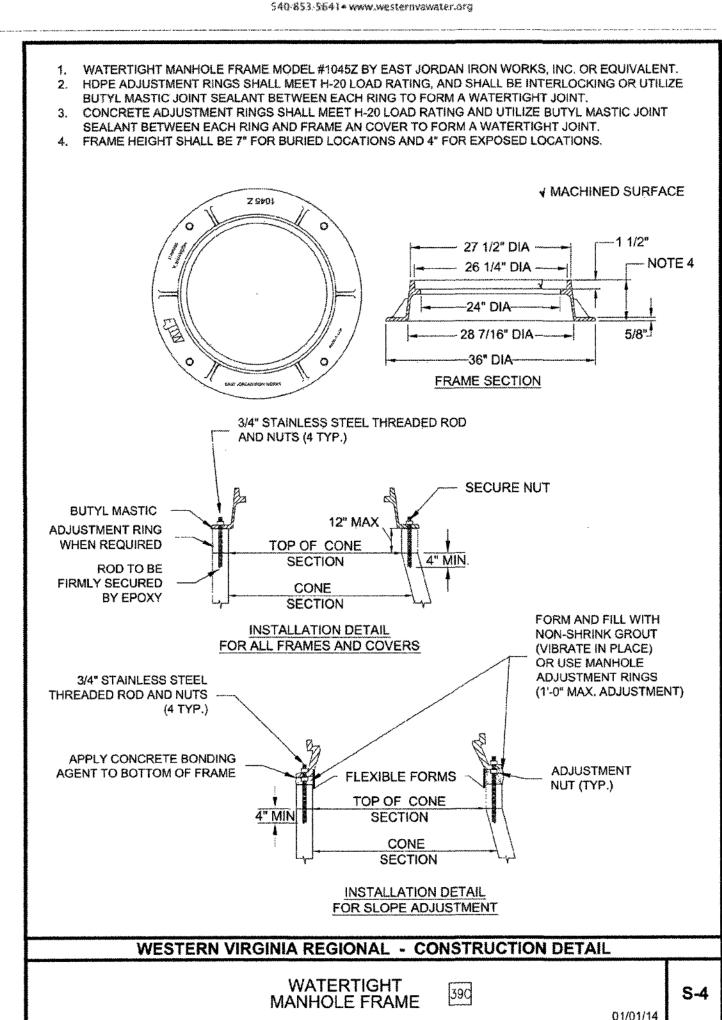
\$15,750.00

\$500.00

MATERIALS AND FABRICATION IN ACCORDANCE WITH ASTM C478-09. WHEN USED AS SAMPLING MANHOLE FLOW SHALL PASS STRAIGHT THROUGH, i.e., 180°. STEPS SHALL BE VERTICALLY ALIGNED. FIRST STEP SHALL BE WITHIN 12" OF COVER, BOTTOM STEP SHALL BE WITHIN 24" OF BOTTOM OF MANHOLE. FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE STRUCTURE AND BOLTED IN PLACE. FLAT TOP MANHOLES MAY ONLY BE SUBSTITUTED WITH THE PERMISSION OF THE PARTICIPATING UTILITY. FLEXIBLE JOINT MANHOLE CONNECTION SHALL BE AS MANUFACTURED BY PRES-SEAL GASKET CORPORATION OR EQUAL GROUT ANNULAR SPACE BETWEEN PIPE AND PRECAST MANHOLE ON INSIDE OF MANHOLE. WHEN REPLACING AN EXISTING MANHOLE OR INSTALLING A NEW PRECAST MANHOLE ON AN EXISTING SEWER, A MINIMUM OF SIX FEET (6') OF EXISTING PIPE SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL ON INLET AND OUTLET OF MANHOLE. MANHOLES WHERE THE INVERT IS LOWER THAN THE NORMAL GROUNDWATER ELEVATION (I.E., ALONG CREEKS, RIVERS, LOW-LYING AREAS, ETC.) SHALL HAVE A FULL EXTERIOR COATING AND JOINT WRAP APPLIED IN ADDITION TO JOINT SEALANT. SEE NOTES 10 & 11. ID. IF REQUIRED EXTERIOR VERTICAL WALL SURFACES SHALL BE FACTORY COATED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION. COATING SHALL BE HIGH BUILD COAL TAR EPOXY MEETING ASTM D1227, COATING SHALL BE APPLIED IN TWO COATS TO A MINIMUM TOTAL THICKNESS OF 16 MILS. . IF REQUIRED ALL MANHOLES SHALL UTILIZE AN EXTERNAL FRAME AND JOINT SEAL AT ALL JOINTS AND AT THE FRAME/CHIMNEYINTERFACE. SEAL SHALL BE MADE OF EPDM RUBBER INACCORDANCE WITH PRECAST HOLE (TYP.) ASTM D412 OR POLYOLEFIN BACKED EXTERIOR JOINT WRAP IN ACCORDANCE WITH ASTM E-1745, C-877, AND C-990. EDM SEAL SHALL HAVE A MINIMUM THICKNESS OF 60 MILS. GROUT POLYOLEFIN BACKED EXTERIOR JOINT WRAP SHALL HAVE - ANNULAR SPACE A BACKING BAND ELEMENT WITH MINIMUM THICKNESS OF (TYP. INLET & OUTLET) 4 MILS. AND BUTYL ROLLER ADHESIVE WITH MINIMUM THICKNESS OF 60 MILS. SEAL SHALL AGGRESSIVELY BOND TO CONCRETE AND METAL STRUCTURES. FLEXIBLE BOOT WITH 12. FOR PIPE LARGER THAN 15 INCHES IN DIAMETER, THE MINIMUM STAINLESS STEEL INSIDE DIAMETER OF THE MANHOLE SHALL BE IN ACCORDANCE BAND (TYP.) WITH MANUFACTURERS RECOMMENDATIONS BASED ON SECTION A-A PIPE SIZE AND ANGLE BETWEEN INLET AND OUTLET PIPING. 6' MINIMUM DIAMETER MANHOLE SHALL BE REQUIRED 3/4" Ø SS THREADED ROD WHEN DEPTHS EXCEED 15'. (IF ADJUSTMENT RINGS ARE REQUIRED) ADJUSTMENT RINGS IF NECESSARY (1'-0" MAX ADJUSTMENT) SEE FRAME & COVER DETAILS **ECCENTRIC CONE** HEIGHT VARIES BUTYL MASTIC JOINT SEALER OR GASKETS MEETING ASTM C443 AND ASTM C1244 TESTING STANDARD (NO MORTAR) 1'-4" Max. RISER MINIMUM SLOPE FOR SECTIONS SERVICE CONNECTION **HEIGHT VARIES** 4" Ø=1/4" PER 1'-0" 4'-0" 5" Min. 6" Ø=1/8" PER 1'-0" HEIGHT VARIES 6" Min. PRECAST HOLE SERVICE SLOPE BENCH WITH FLEXIBLE CONNECTION 1/4" PER 1'-0" STONE BASE (6" MIN. DEPTH) BOOT & STAINLESS #57 OR EQUIVALENT STEEL BAND MANHOLE WITH PRECAST INVERT **WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL** 4' STANDARD MANHOLE FOR PIPE 15" OR SMALLER S-1 (FOR DEPTHS UP TO 15 FEET) 01/01/14 2" LETTERS (RECESSED STOP LUGS NON-SLIP

MATERIALS AND FABRICATION IN ACCORDANCE WITH ASTM C478-09. STEPS SHALL BE VERTICALLY ALIGNED. FIRST STEP SHALL BE WITHIN 12" OF COVER, BOTTOM STEP SHALL BE WITHIN 24" OF BOTTOM OF MANHOLE. THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE STRUCTURE AND BOLTED IN PLACE. RELINER BY DURAN INSIDE DROP BOWLS AND PIPE BRACKETS WILL BE ALLOWED. GROUT ANNULAR SPACE BETWEEN PIPE AND PRECAST MANHOLE ON INSIDE OF MANHOLE. STEPS SHALL BE A MINIMUM OF 90 DEGREES FROM DROP & ALIGNED VERTICALLY. 7. INSIDE DROP ONLY ALLOWED WHEN DEPTH EXCEEDS 12' AND APPROVED BY PARTICIPATING UTILITY. 8. 6' MINIMUM DIAMETER MANHOLE REQUIRED FOR TWO OR MORE INSIDE DROP CONNECTIONS (MAIN LINE OR LATERAL). SEE FRAME AND COVER DETAIL. 10. SEE DETAIL S-01 FOR EXTERIOR COATING AND JOINT SEAL REQUIREMENTS. ADJUSTMENT RINGS IF NECESSARY (1'-0" MAX. ADJUSTMENT) SEE FRAME & COVER DETAILS 3/4" Ø SS THREADED ROD (IF ADJUSTMENT RINGS 2'-0" CONE ARE REQUIRED) **ECCENTRIC BUTYL MASTIC JOINT SEALER** OR GASKETS MEETING ASTM C443 AND ASTM C1244 TESTING STANDARD (NO MORTAR) 7' MIN. SCH 40 THREADED END CAP FLEXIBLE BOOT WITH PLUG WITH STAINLESS 1" STAINLESS STEEL BAND STEEL BAND @24" O.C. WITH 5/8" S.S. ANCHOR BOLTS \$55555555 SCH 40 PVC 6" MIN. STONE BASE #57 OR EQUIVALENT **WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL** INSIDE DROP MANHOLE 390 01/01/14

TRAFFIC BEARING BOX AND LID REQUIRED IN TRAFFIC AREAS (CAPITOL FOUNDRY VB-9°S).



WESTERN VIRGINIA WATER AUTHORITY

Prepared by: David Vogelsong, P.E., Engineer II (540) 853-5688

Anticipated Pressure: 120 to 130 PSI, WVWA to install PRV

WVWA work required: Tap only, contractor to install lateral

Cost Connection Summary

To proceed with service, please follow the steps below:

Location: 2" existing service lateral connected to 6" main located in entrance road into parking lot.

Location: 6" proposed service lateral connected to 8" main located in easement next to Challenger Ave.

. Make Payment to:Roanoke County Admin Center, 5204 Bernard Drive, Roanoke, VA 24018

Fire

size

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

NOTES:

Our Mission Is Clear

601 South Jefferson Street • Suite 300 • Roanoke VA 24011

new account, a deposit and application fee will be charged on first billing cycle.

Applicant is responsible for acquiring all permits required by Roanoke County.

Applicant shall not alter or disturb plumbing connections within the water meter box.

Address must be clearly posted on site to have any Water Authority services installed.

Availability # 15-142

Address: 4524 CHALLENGER AVE

Tax Map Number(s): 040.10-03-01.00-0000

Contact: Charles Beadles (404) 601-3928

WVWA work required: Install new meter

WVWA project manager.

Description

Meter size

Connection Fees

Availability Fees

Meter Fees (2)

Tap Fees

Subtotal of Fees

Payment Due

the main to the building.

office at (540) 537-3460.

be coordinated with the assigned inspector.

schedule inspection prior to backfilling.

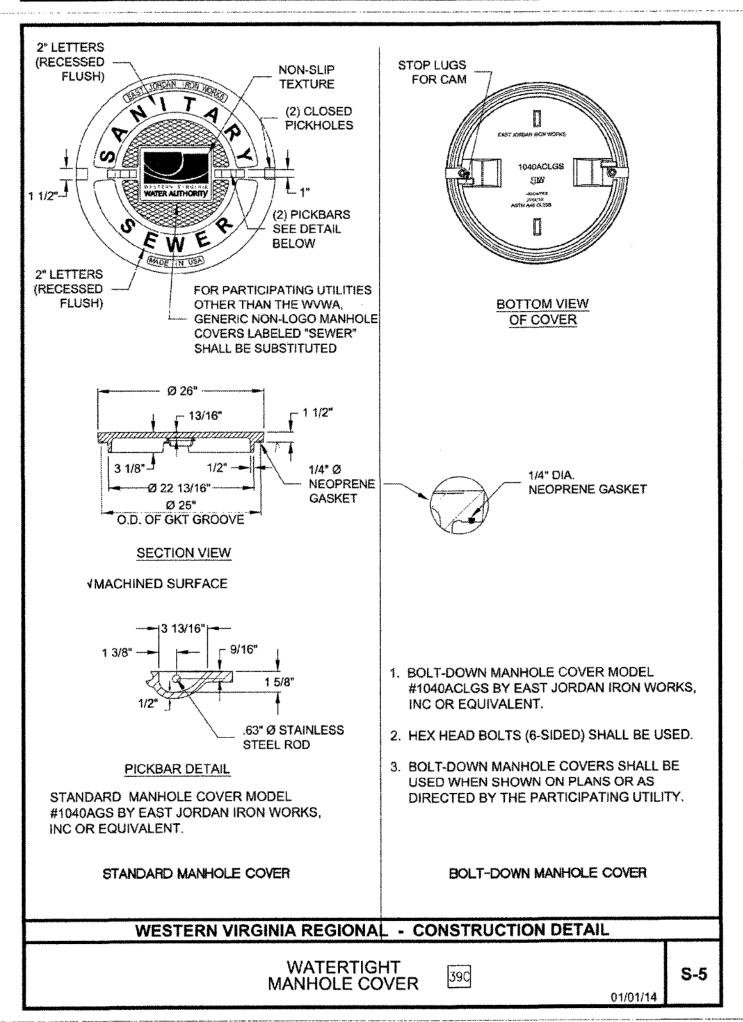
. The second meter is for a sewer subtraction meter.

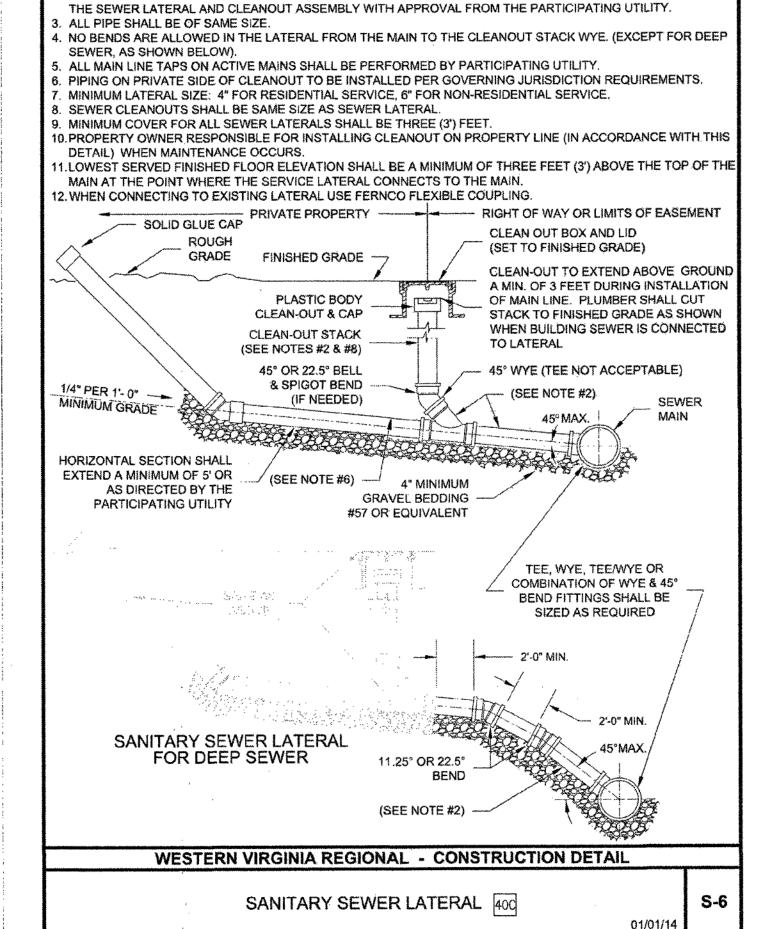
All taps must be scheduled at least 48 hours in advance.

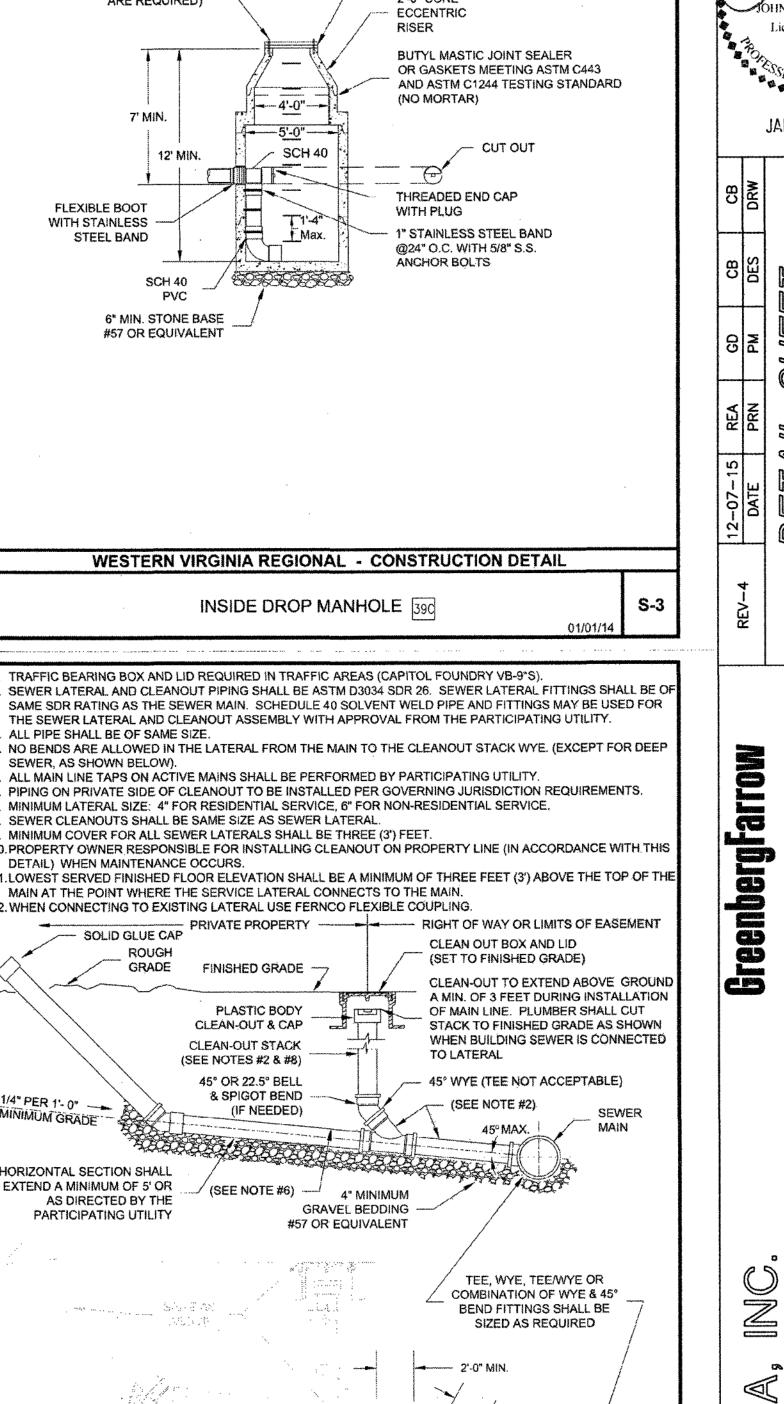
sewer main, If not, a private pumping station will be required.

station and the site plan shall be approved prior to payment.

isting Credits (if applicable







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