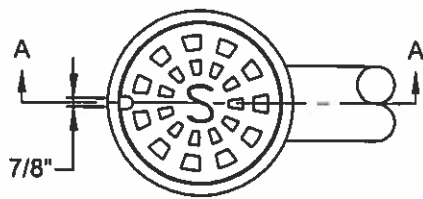


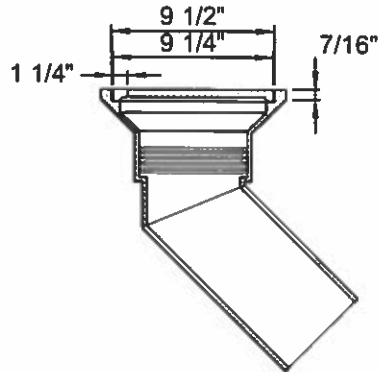
Appendices

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APPENDIX A

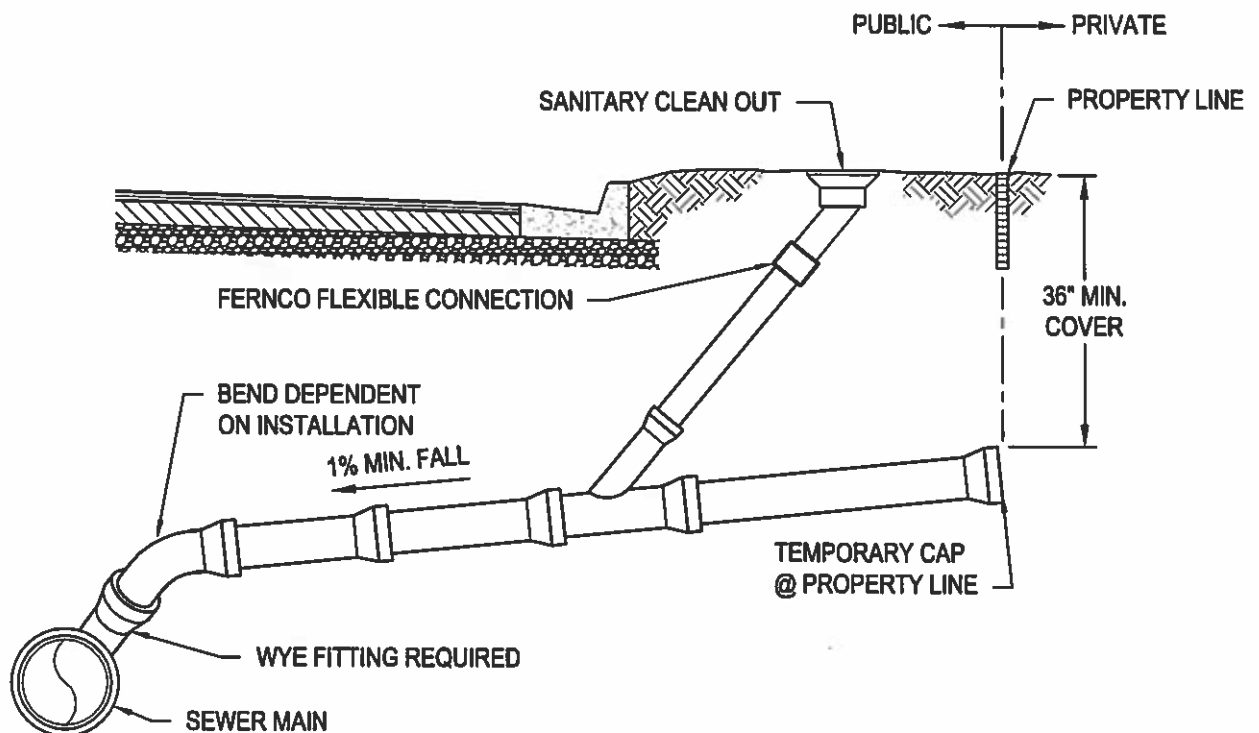


PLAN



SECTION A-A

CLEANOUT



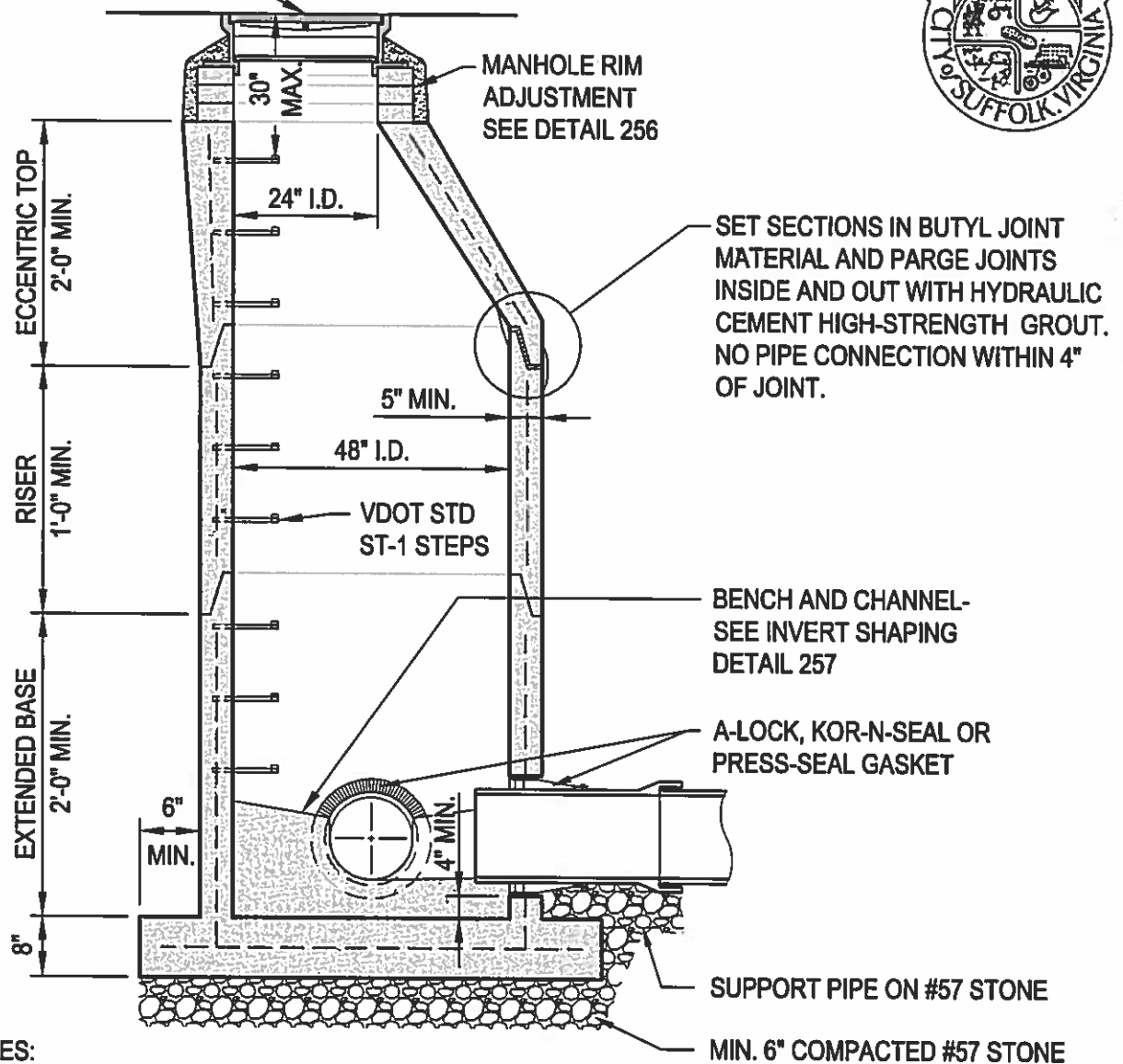
NOTES:

1. SINGLE CLEAN OUT (CAPITOL FOUNDRY ITEM # 110T-CO OR EQUAL) WITH LID MARKED "S" AND PLASTIC THREADED PLUG. CLEAN OUT CASTING TO BE CONNECTED TO 4" RISER PIPE WITH FERNCO FLEXIBLE COUPLING OR APPROVED EQUAL.
2. LATERAL SHALL BE ORIENTED AT 90° TO THE SEWER MAIN.
3. PIPE SIZE FOR COMMERCIAL SERVICE LATERALS SHALL BE DETERMINED BY FLOW CALCULATIONS AND APPROVED BY DPU (TYPICALLY 6" DIAMETER).
4. CLEAN OUT SHALL BE LOCATED IN RIGHT-OF-WAY, 1'-0" FROM PROPERTY LINE. OBSTRUCTIONS OR CONFLICTS WILL BE EVALUATED BY CITY ON A CASE BY CASE BASIS.
5. LATERAL MATERIAL SHALL MATCH SEWER MAIN, UNLESS DIRECTED OTHERWISE BY DPU.

SANITARY LATERAL

NOT TO SCALE

FRAME AND COVER-
SEE DETAIL 258



NOTES:

1. MANHOLE AND STEP SPACING TO BE IN COMPLIANCE W/ ASTM C-478.
2. BUTYL JOINT MATERIAL SHALL BE IN COMPLIANCE W/ ASTM C-990.
3. PRECAST LIFT HOLES, IF PROVIDED, SHALL BE PLUGGED W/ HIGH-STRENGTH, NON-SHRINK GROUT TO MAKE WATERTIGHT AFTER INSTALLATION.
4. USE STANDARD 48" MANHOLE FOR DEPTHS UP TO 12.0 FEET AS MEASURED FROM MANHOLE RIM TO INVERT OF LOWEST PIPE.
5. FOR DEPTHS GREATER THAN 12 FEET, OR WHERE PIPE SIZE DICTATES, USE 60" DIAMETER MANHOLE. REFER TO DETAIL 251.

STANDARD 48" MANHOLE

NOT TO SCALE

REFERENCE
PFM Vol. II

RELEASE 1
2014

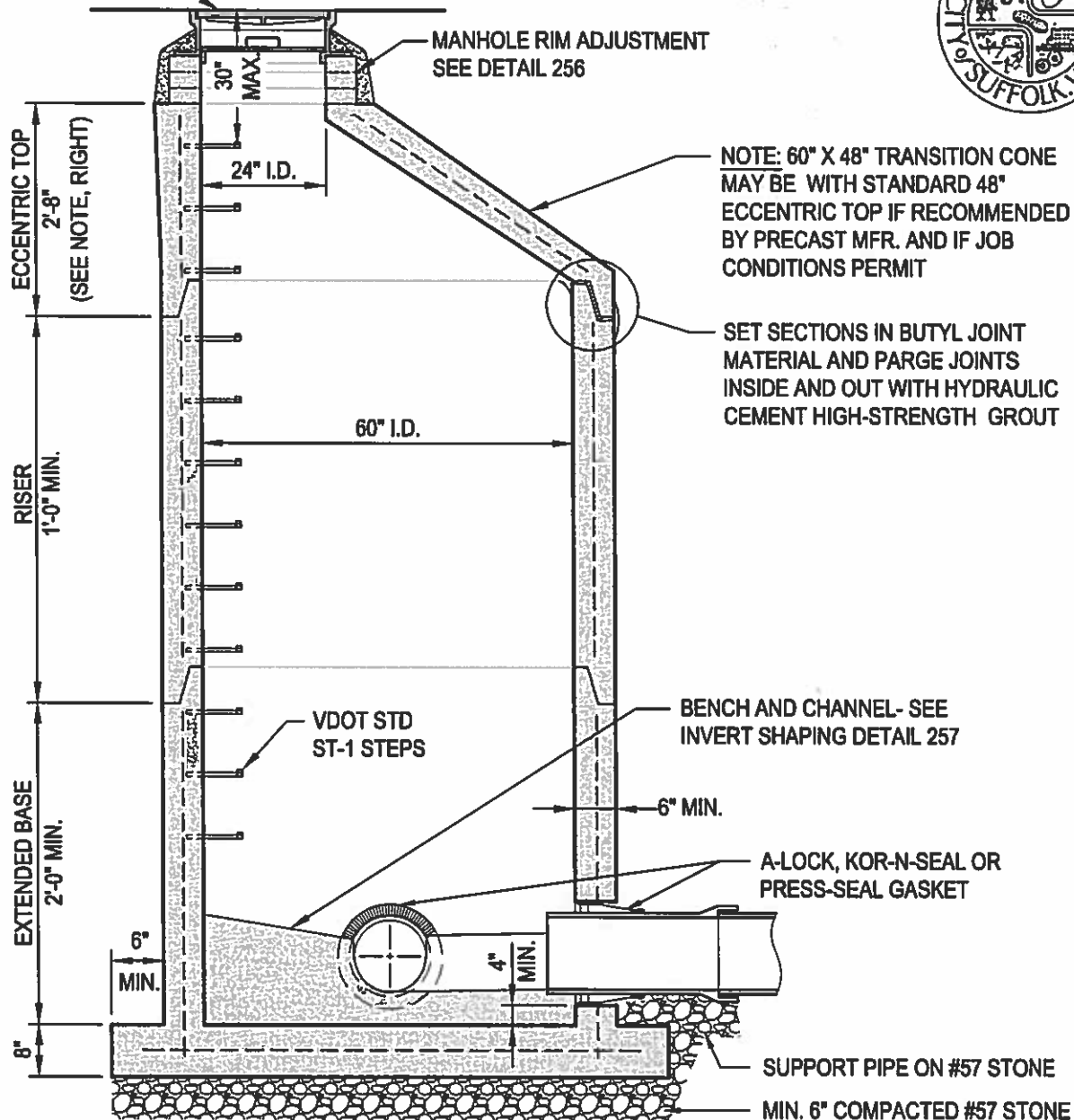
CATEGORY
SANITARY

SHEET NO.
1 of 1

DPU DETAIL NO.
250



FRAME AND COVER-
SEE DETAIL 258



NOTE: 60" X 48" TRANSITION CONE
MAY BE WITH STANDARD 48"
ECCENTRIC TOP IF RECOMMENDED
BY PRECAST MFR. AND IF JOB
CONDITIONS PERMIT

SET SECTIONS IN BUTYL JOINT
MATERIAL AND PARGE JOINTS
INSIDE AND OUT WITH HYDRAULIC
CEMENT HIGH-STRENGTH GROUT

BENCH AND CHANNEL- SEE
INVERT SHAPING DETAIL 257

VDOT STD
ST-1 STEPS

A-LOCK, KOR-N-SEAL OR
PRESS-SEAL GASKET

SUPPORT PIPE ON #57 STONE

MIN. 6" COMPACTED #57 STONE

NOTES:

1. MANHOLE AND STEP SPACING TO BE IN COMPLIANCE W/ ASTM C-478.
2. BUTYL JOINT MATERIAL SHALL BE IN COMPLIANCE WITH ASTM C-990.
3. PRECAST LIFT HOLES, IF PROVIDED, SHALL BE PLUGGED W/ HIGH-STRENGTH, NON-SHRINK GROUT TO MAKE WATERTIGHT AFTER INSTALLATION.
4. FOR MANHOLES GREATER THAN 60" DIAMETER SUBMIT FULL DESIGN.

STANDARD 60" DIAMETER MANHOLE

NOT TO SCALE

REFERENCE
PFM Vol. II

RELEASE 1
2014

CATEGORY
SANITARY

SHEET NO.
1 of 1

DPU DETAIL NO.
251

FRAME AND COVER- CAPITOL FOUNDRY OF VA MODEL B-1200 (OR APPROVED EQ.) MARKED "SEWER" SET IN BUTYL JOINT MAT'L.

C.O. ADAPTER AND PLUG

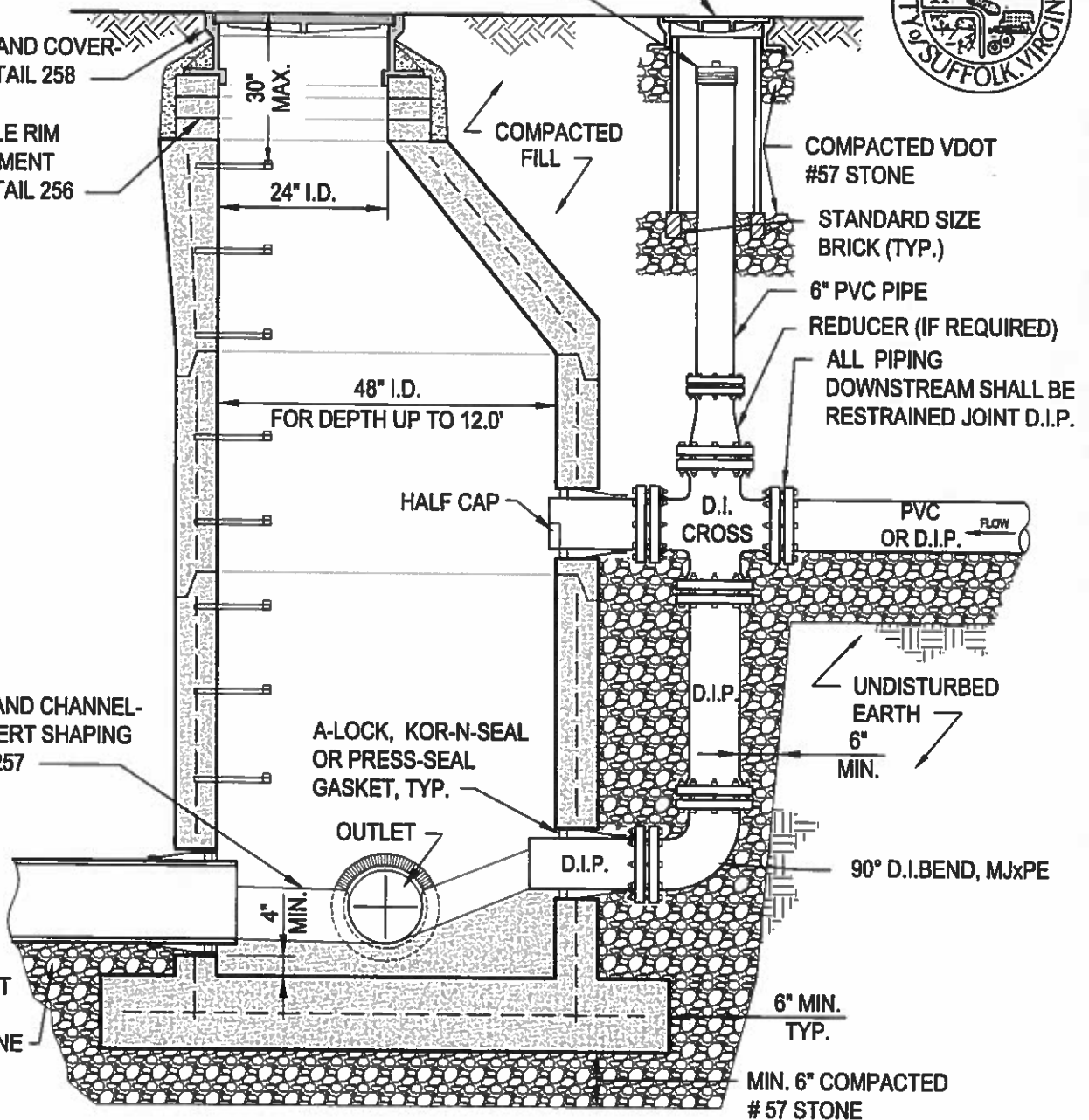


FRAME AND COVER-
SEE DETAIL 258

MANHOLE RIM
ADJUSTMENT
SEE DETAIL 256

BENCH AND CHANNEL-
SEE INVERT SHAPING
DETAIL 257

SUPPORT
PIPE ON
#57 STONE



NOTES:

1. USE WHERE DROP IS 24" OR GREATER AND ONLY AS DIRECTED BY DPU.
2. DROP SHALL NOT CONFLICT WITH MANHOLE STEPS.
3. COMPACTED FILL SHALL BE AS PER PFM.
4. DROP PIPE DIAMETER TO BE SAME DIAMETER AS INFLUENT LINE.
5. ALL DROP CONNECTION PIPING SHALL BE M.J. DUCTILE IRON.
6. FOR ADDITIONAL INFORMATION, SEE STANDARD DETAILS 250 AND 251.

EXTERIOR DROP CONNECTION

NOT TO SCALE

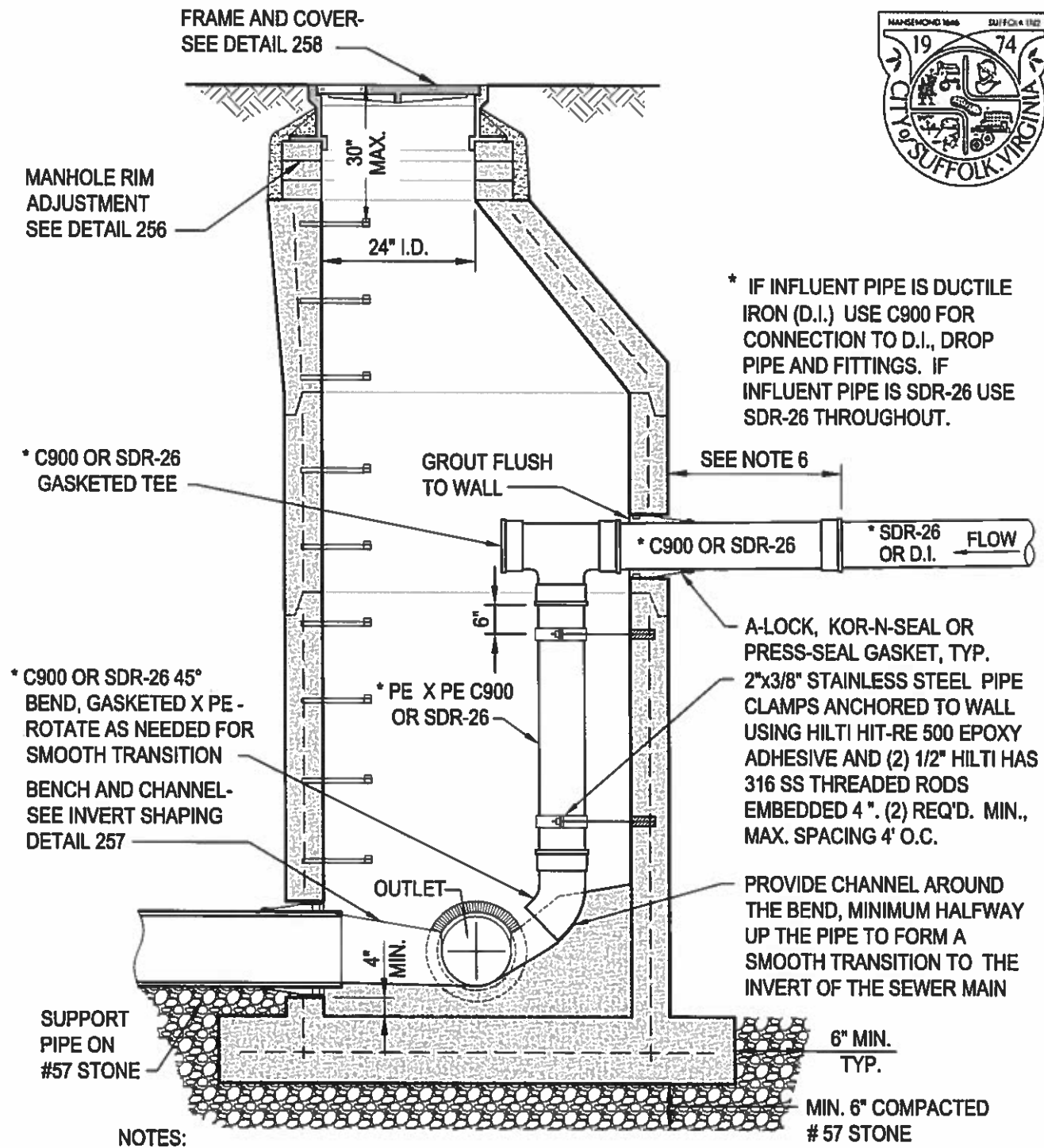
REFERENCE
PFM Vol. II

RELEASE 1
2014

CATEGORY
SANITARY

SHEET NO.
1 of 1

DPU DETAIL NO.
254



* IF INFLUENT PIPE IS DUCTILE IRON (D.I.) USE C900 FOR CONNECTION TO D.I., DROP PIPE AND FITTINGS. IF INFLUENT PIPE IS SDR-26 USE SDR-26 THROUGHOUT.

* C900 OR SDR-26 GASKETED TEE

GROUT FLUSH TO WALL

SEE NOTE 6

* C900 OR SDR-26

* SDR-26 OR D.I. FLOW

* C900 OR SDR-26 45° BEND, GASKETED X PE - ROTATE AS NEEDED FOR SMOOTH TRANSITION
BENCH AND CHANNEL- SEE INVERT SHAPING DETAIL 257

* PE X PE C900 OR SDR-26

A-LOCK, KOR-N-SEAL OR PRESS-SEAL GASKET, TYP.
2"x3/8" STAINLESS STEEL PIPE CLAMPS ANCHORED TO WALL USING HILTI HIT-RE 500 EPOXY ADHESIVE AND (2) 1/2" HILTI HAS 316 SS THREADED RODS EMBEDDED 4" (2) REQ'D. MIN., MAX. SPACING 4' O.C.

PROVIDE CHANNEL AROUND THE BEND, MINIMUM HALFWAY UP THE PIPE TO FORM A SMOOTH TRANSITION TO THE INVERT OF THE SEWER MAIN

SUPPORT PIPE ON #57 STONE

4" MIN.

6" MIN. TYP.

MIN. 6" COMPACTED # 57 STONE

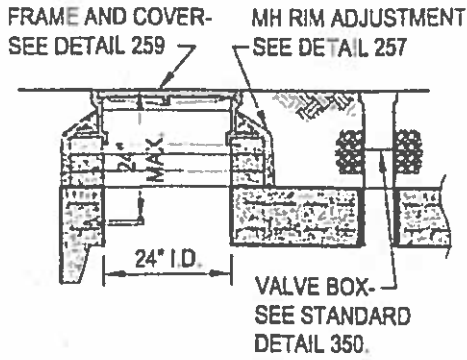
NOTES:

1. USE WHERE DROP IS 24" OR GREATER.
2. DROP SHALL NOT CONFLICT WITH MANHOLE STEPS.
3. COMPACTED FILL SHALL BE AS PER PFM.
4. DROP PIPE DIAMETER SHALL MATCH INFLUENT PIPE SIZE.
5. PROVIDE 60" I.D. MANHOLE, SEE STANDARD DETAIL 251 FOR ADDITIONAL INFORMATION.
6. 3'-0" FOR DUCTILE IRON/C900 TRANSITION ONLY. FULL LENGTH FOR SDR-26.

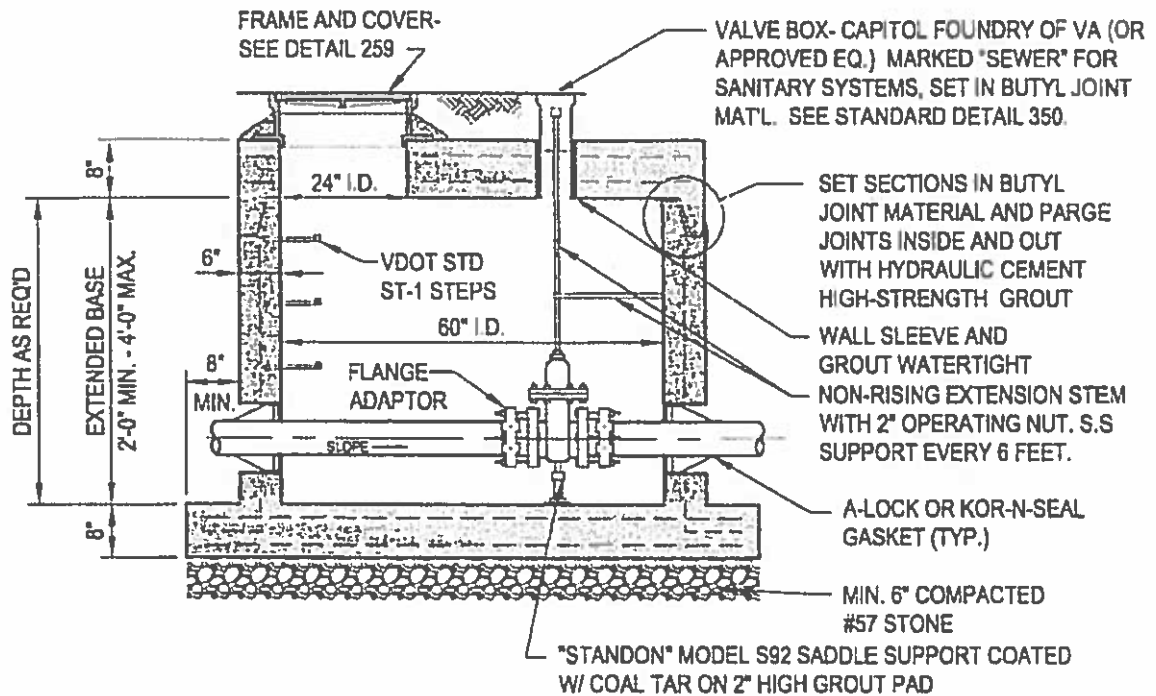
INTERIOR DROP CONNECTION

NOT TO SCALE

REFERENCE PFM Vol. II	RELEASE 1 2014	CATEGORY SANITARY	SHEET NO. 1 of 1	DPU DETAIL NO. 255
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ADJUSTED FRAME AND COVER
SET ON TOP ALTERNATIVE

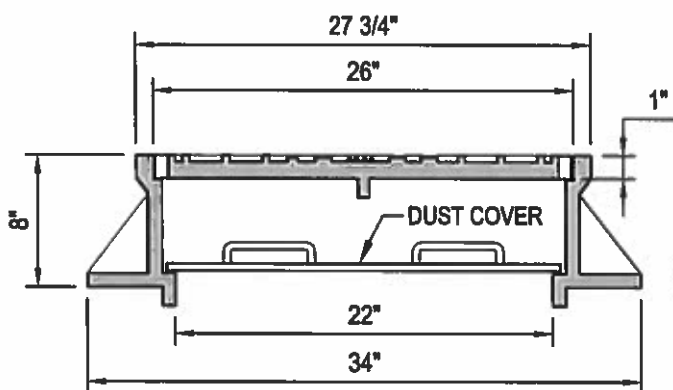
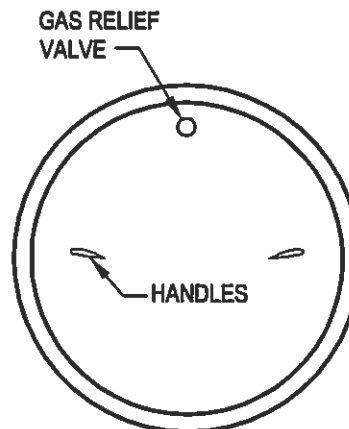
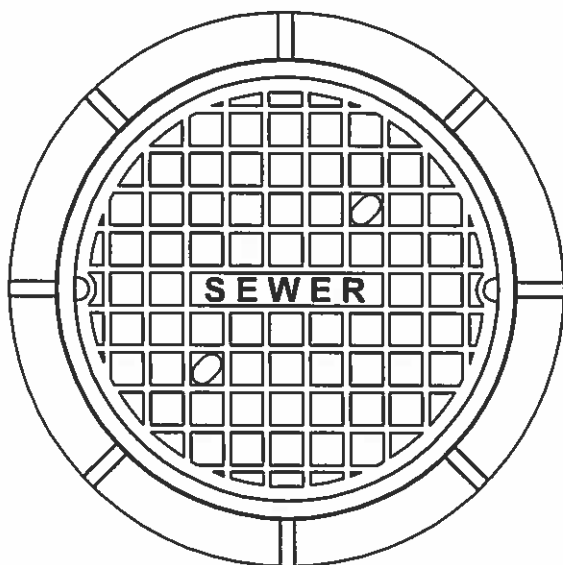


NOTES:

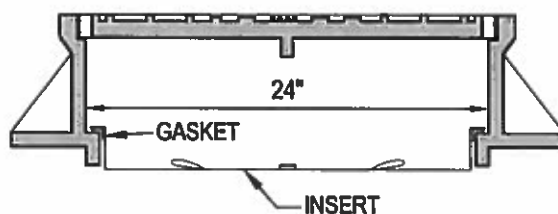
1. MANHOLE AND STEP SPACING TO BE IN COMPLIANCE W/ ASTM C-478.
2. PRECAST LIFT HOLES, IF PROVIDED, SHALL BE PLUGGED W/ HIGH-STRENGTH, NON-SHRINK GROUT TO MAKE WATERTIGHT AFTER INSTALLATION.
3. GRAVITY PIPING TO MAINTAIN SLOPE THROUGH MANHOLE.
4. FOR ADDITIONAL INFORMATION, SEE STANDARD DETAILS 250, 251, AND 252.
5. PROVIDE WITH ADJUSTED FRAME AND COVER CAST ON TOP ALTERNATIVE UNLESS OTHERWISE APPROVED BY DPU.

**60" DIAMETER VALVE VAULT
PRECAST CONCRETE MANHOLE**

NOT TO SCALE



DUST COVER



ALTERNATIVE INSERT

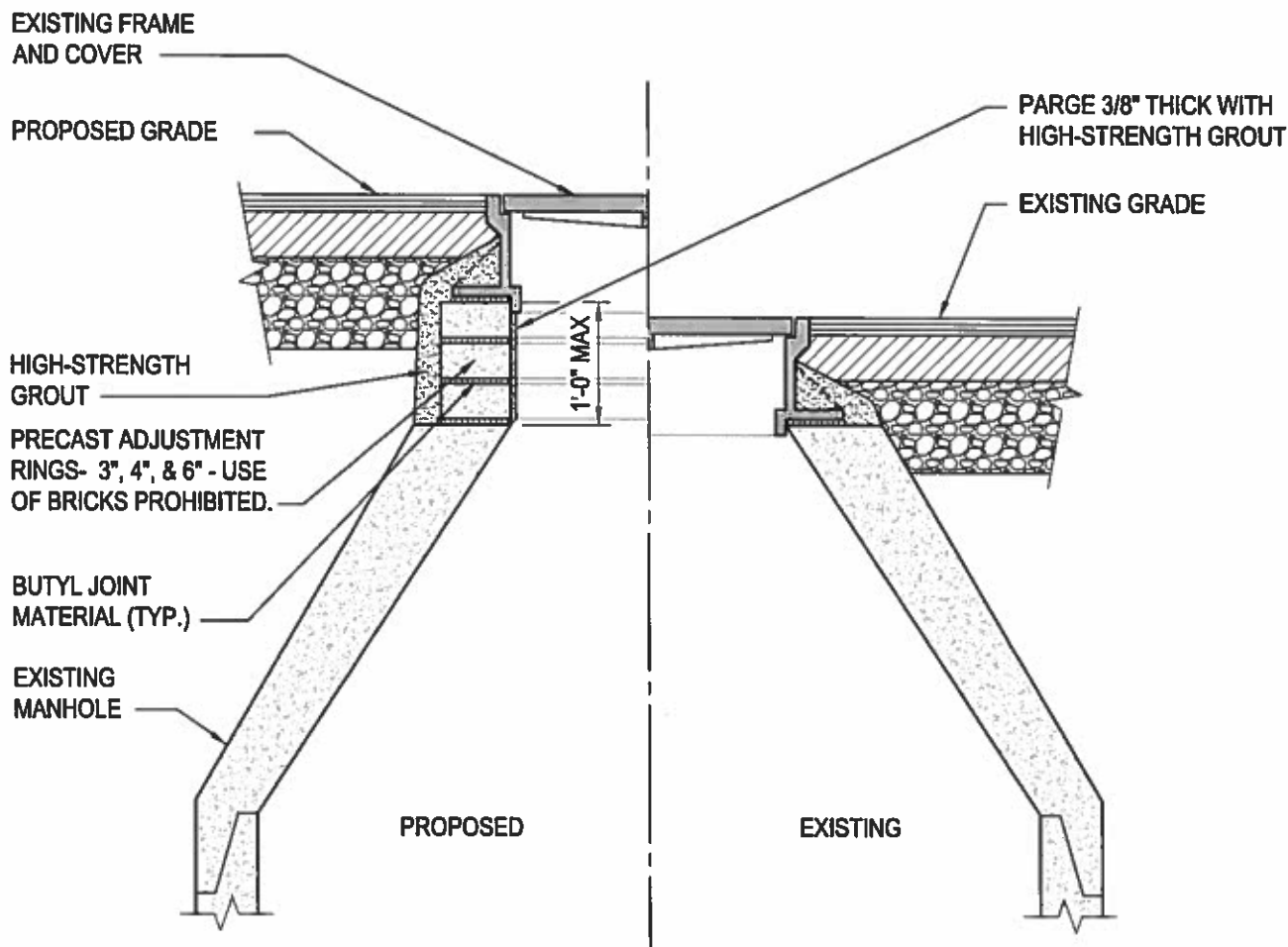
NOTES:

1. FRAME AND COVER BY CAPITOL FOUNDRY MODEL C-21-Y (OR APPROVED EQUAL) MARKED "SEWER"
2. MANHOLE INSERT TO BE PARSON ENVIRONMENTAL STAINLESS STEEL WITH GAS RELIEF VALVE, CLOSED-CELL NEOPRENE GASKET AND (2) PLASTIC COATED STAINLESS STEEL CABLE HANDLES OR APPROVED EQUAL.
3. PROVIDE MANHOLE INSERT AS ALTERNATIVE TO DUST COVER IN ALL LOCATIONS POTENTIALLY SUBJECT TO FLOODING OR AS DIRECTED BY DPU.

STANDARD MANHOLE FRAME AND COVER WITH INSERT

NOT TO SCALE

REFERENCE PFM Vol. II	RELEASE 1 2014	CATEGORY SANITARY	SHEET NO. 1 of 1	DPU DETAIL NO. 258
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NOTES:

1. PROVIDE HDPE TAPERED ADJUSTMENT RINGS OR EQUAL WHERE GRADE DICTATES.

MANHOLE RIM ADJUSTMENT

NOT TO SCALE

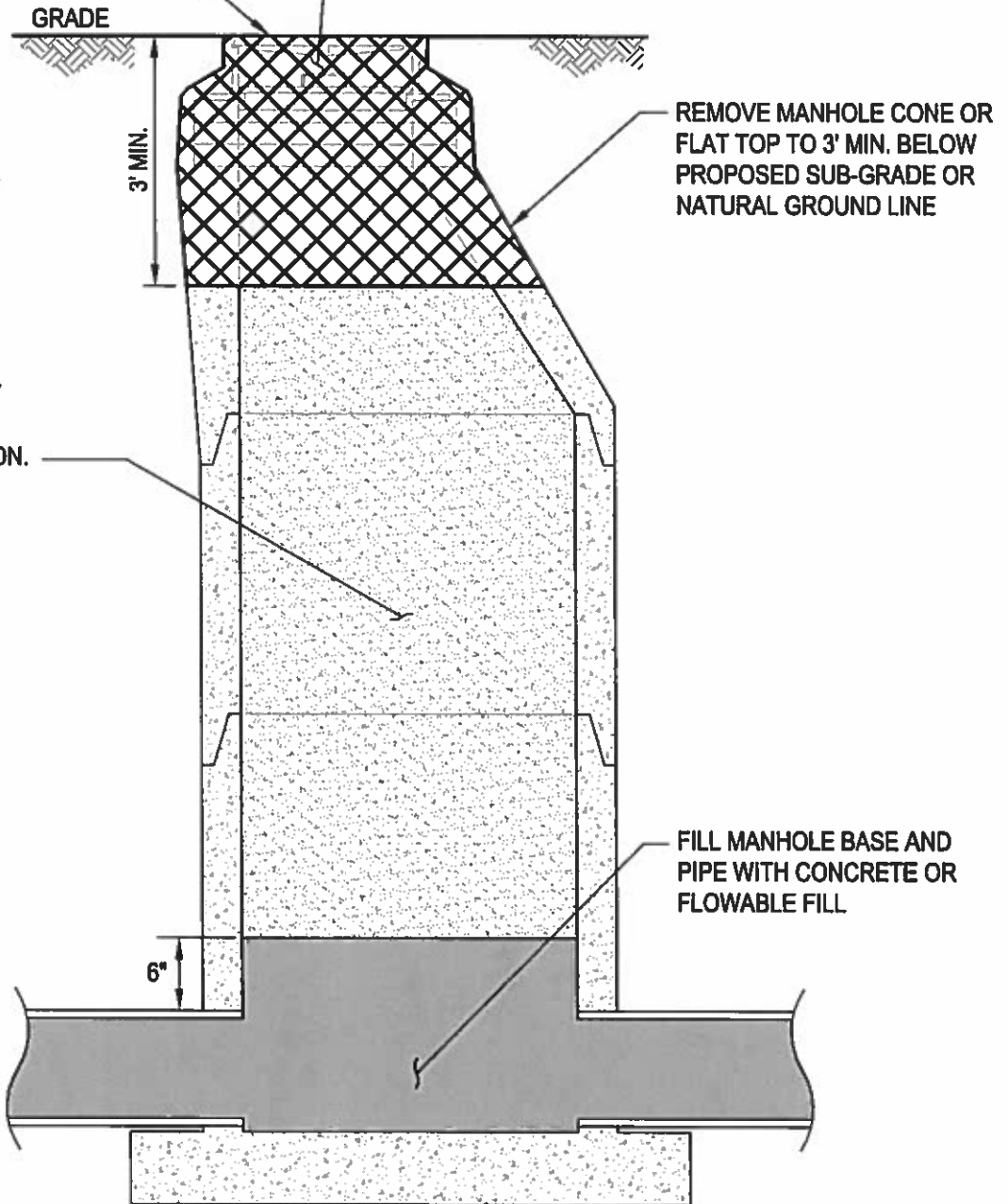
REFERENCE PFM Vol. II	RELEASE 1 2014	CATEGORY SANITARY	SHEET NO. 1 of 1	DPU DETAIL NO. 256
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PROVIDE METHOD OF ABANDONMENT TO DPU.



REMOVE MANHOLE
FRAME AND COVER AND
RETURN TO SUFFOLK DPU

FILL AND RESTORE WITH SELECT
FILL AS SPECIFIED TO EXISTING/
FINISHED GRADE AND
TOPSOIL/RESEED/ REPAIR SITE.
COORDINATE WITH DPW FOR
ROADWAY RESTORATION.



FILL REMAINDER OF
MANHOLE WITH DRY
SAND TO TOP OF
ABANDONED SECTION.

REMOVE MANHOLE CONE OR
FLAT TOP TO 3' MIN. BELOW
PROPOSED SUB-GRADE OR
NATURAL GROUND LINE

FILL MANHOLE BASE AND
PIPE WITH CONCRETE OR
FLOWABLE FILL

MANHOLE AND PIPE ABANDONMENT

NOT TO SCALE

REFERENCE
PFM Vol. II

RELEASE 1
2014

CATEGORY
SANITARY

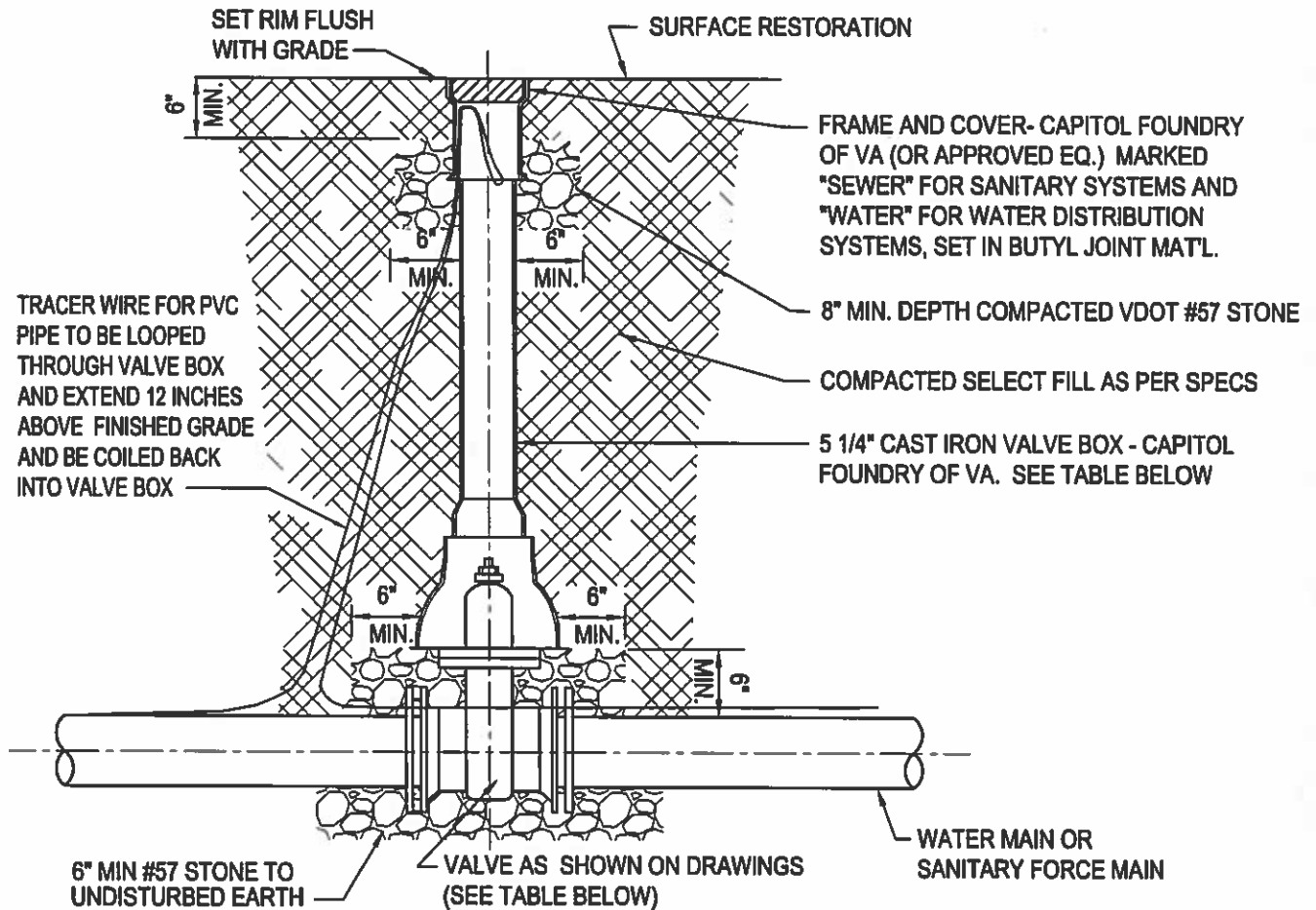
SHEET NO.
1 of 1

DPU DETAIL NO.
260



NOTES:

1. PROVIDE MIDDLE SECTION TO EXTEND FOR DEEP BOXES.
2. ADJUST BOX TOP FOR STREET PAVEMENT OVERLAY, IF OVERLAY IS PERFORMED.
3. VALVES SHALL OPEN TURNING TO THE LEFT.
4. FOR DEEP APPLICATIONS USE PVC PIPE EXTENSION (WITH BELL BELOW VALVE BOX).



VALVE GUIDE		
APPLICATION	SIZE AND TYPE	
		2" - 12"
SANITARY	GATE	GATE
WATER	GATE	BUTTERFLY

VALVE BOX GUIDE			
MODEL #	BOX COMPLETE EXTENSION	TOP SECTION LENGTHS	BOTTOM SECTION LENGTHS
461A	19" - 22"	10"	15"
562A	27" - 37"	16"	24"
564A	39" - 50"	16"	36"
664A	39" - 60"	26"	36"

LONGER BOXES MADE BY ADDING EXTENSION TO MODEL # 664A

VALVE BOX
NOT TO SCALE

APPENDIX B



CITY OF SUFFOLK
Department of Public Works
Engineering Division

FOR CITY USE ONLY		
Approved <input type="checkbox"/>	Denied <input type="checkbox"/>	Date _____
Permit # _____		
Bond # _____	Amount \$ _____	
By _____		

RIGHT OF WAY PERMIT APPLICATION FOR UTILITY WORK

(Type or Print Clearly)

Applicant Name: _____ **Date:** _____

Applicant Address: _____ **Phone:** _____
 (Street, City, State, Zip)

Person, firm or corporation other than applicant performing the work:

Company Name _____ Phone Number _____

Construction Contact Person/Title: _____
 Fax #: _____ Phone #: _____ Email: _____

Worksite Address: _____

Install: Gas line Electric line Sewer line Waterline Storm drain Communication line Test holes
 Other (explain) _____

Description of Work for Gas, Sewer, Water or Storm Drain: Install new Renew Repair Retire Relocate
 Main _____ (ft.) Service lateral _____ (ft.) Valve Cathodic protection
 Other (explain) _____

Description of Work for Electric or Communication Facilities: (list quantity & size)
 Conduit _____ (ft.) Conduit size _____ (in.) # of Conduits _____ Coaxial cable _____ (ft.)
 Fiber optic cable _____ (ft.) Electric cable/conductor _____ (ft.) Communications cable _____ (ft.)
 Depth of cover _____ (in. - 24" min.) Other (explain) _____

Install Pole, Guy, Aerial Cable/Conductor:

# of poles:	New _____	Renewed _____	Removed _____
# of guywires/anchors:	New _____	Renewed _____	Removed _____
Aerial cable/conductor (ft.):	New _____	Renewed _____	Removed _____

Install Cabinets, Vaults, Manholes, Junction Boxes, Pedestals, Transformers, Switches, Meters, etc.:

# of cabinets _____	# of junction boxes _____	# of pedestals _____	Meters _____
# of transformers _____	# of switches _____	# of witness markers _____	
# of vaults _____	# of manholes _____	# of standby power supplies _____	

Does installation comply with the City's landscaping and site location policy? Yes No N/A

Dirt Utility Cut(s) (list cut size, length X width):

NOTE: *If any cuts are in asphalt, concrete or brick, please use Street, Lane, Sidewalk Closure Permit Application in addition to this application.*

Quantity _____ Cut _____ X _____ Quantity _____ Cut _____ X _____ Quantity _____ Cut _____ X _____

Method of Construction:

Open pavement cut Direct buried Jack & bore Horizontal directional drilling (HDD) Aerial

A permit will NOT be issued unless accompanied by a proper site plan of proposed work. Site plan shall show all requested work on the application, including property lines, or city right of way, edge of pavement, curb & gutter, sidewalk, driveways, closest cross street, city trees and north arrow, existing sewer and water lines, referencing them to the edge of pavement. All work shall be done in accordance with this application or as amended and approved by this office. Please submit application and site plan in duplicate (2 copies).

A bond as required by the City Code: is attached hereto AND is on file with the City in the _____ Department. Work for this permit will commence on _____ and will be completed on _____.



CITY OF SUFFOLK
Department of Public Works
Engineering Division

STREET AND MAJOR UTILITY CONSTRUCTION PERMIT APPLICATION

(Type or Print Clearly)

Construction Date(s):	From:	To:
General Contractor/Utility:		
Address:		
Phone:		
Fax:		
E-mail:		
Sub-Contractor:		
Worksite Address:		
Project/Work ID#:		
Excavation/Utility Cut Description(s): (list cut size, length x width for each pavement type) NOTE: If all cuts are in dirt, please use ROW Permit form instead on Page 1.	Quantity: ___ Asphalt: ___ x ___ Concrete: ___ x ___ Brick: ___ x ___	
	Quantity: ___ Asphalt: ___ x ___ Concrete: ___ x ___ Brick: ___ x ___	
	Quantity: ___ Asphalt: ___ x ___ Concrete: ___ x ___ Brick: ___ x ___	
	Quantity: ___ Asphalt: ___ x ___ Concrete: ___ x ___ Brick: ___ x ___	
Method: (select all that apply)	Open Cut	HDD Bore Other _____
Restoration Type: (select all that apply)	Single Cut	Multiple Cuts Full Street Repave
Reason for work:		
Is the work being performed for the City of Suffolk?	No Yes, for _____	
Primary & Secondary Contact: (contractor performing the work)	Name:	Name:
	Work Phone:	Work Phone:
	Cell Phone:	Cell Phone:
	After Hours:	After Hours:
	E-mail:	E-mail:

The Permittee, its agents, employees, officers and assigns assume all responsibility and liability for any injury to persons or damage to public or private property, caused directly or indirectly, by the performance of permitted work under this permit. Furthermore, the Permittee, its agents, employees, officers or assigns agree to save and hold harmless the City of Suffolk, its agents, employees, and officers from any and all claims, demands, actions, judgments, executions, damages or proceedings for any and all personal injury and injuries to property, real or personal, public or private caused by or arising out of, directly or indirectly, from the performance of permitted work.

I certify that the above information is accurate, that proper permission from the property owner has been obtained to perform the work, and that all work will be done in accordance with the City of Suffolk Right of Way Excavation and Restoration Manual, as amended.

PRINT NAME _____ SIGNATURE _____ DATE _____
(Permit Applicant or Authorized Agent)

The applicant hereby agrees that:

- A fee of \$100.00 will be charged for each permit issued.
- Application must be submitted at least fourteen (14) business days in advance of scheduled work.
- All work will be performed in accordance with the Laws, Zoning Ordinances, City Code of the City of Suffolk, Virginia, the attached detailed plan, and as directed by the Department Director or designated representative.
- The work shall be carried out in accordance with Chapter 74 of the Suffolk City Code, entitled "Streets and Sidewalks." Failure to have in possession a copy of this document does not relieve the permittee from the responsibility of having knowledge of and adhering to the requirements described therein.
- Applicants to whom permits are issued at all times indemnify and save harmless the City of Suffolk from responsibility and damage to, or liability arising from, the exercise of privileges granted in such permit either during construction or at any time in the future.
- Permits are issued for street openings at specified locations. If additional openings are necessary to complete the work at this site, the permittee must notify the Department Director or designated representative immediately.
- Limitations of working hours may be stipulated when necessary.
- Traffic is not to be rerouted without special permission of the Department Director or designated representative.
- Traffic is to be protected by adequate lights, barricades, and construction signs at all times in accordance with MUTCD standards.
- All backfilling of trenches is to be made in layers not to exceed six (6) inches loose depth and compacted to a density rate of 95%.
- Compaction by water will not be permitted.
- Where entrances are disturbed, they must be restored to their original condition or to a condition satisfactory to the Department Director or designated representative.
- The absence of an inspector does not in any way relieve the permittee of his responsibility to perform the work in accordance with the provisions of this permit.
- The permittee is responsible for ensuring that all utility markings are removed within 20 days after the completion of work. If the utility marks are not removed by the time specified herein, the City will consider the marks as graffiti. The City, in accordance with existing City ordinances, may remove graffiti, and the costs associated with such removal will be the responsibility of the contractor or permittee. The City shall have the right to suspend further permits to contractor or permittee until the utility marks are removed.
- The permittee, its agents, employees, officers, and assignees assume all responsibility and liability for any injury to persons or damage to public or private property caused directly or indirectly by the performance of work performed under this permit.
- The City of Suffolk reserves full municipal control over the subject of this permit.
- Permittee agrees to notify the Department of Public Works when the work herein referred to is completed.
- A copy of this permit must be maintained on the site at all times.
- All signs, equipment, and material will be moved from the City of Suffolk's right-of-way prior to the end of the lane closure time indicated. No lane closure signing to include other traffic disruptive work is to be initiated prior to the specified times. Lane closures will not be permitted on Saturdays, Sundays, state recognized holidays or other days deemed by Public Works to be the same as holidays (i.e. Easter). Lane closures will be prohibited from noon (Friday as the case may be) until noon the following day (Tuesday as the case may be) in accordance with VDOT requirements for work zones.

In an effort to coordinate work and ensure safe travel, all work within the City Of Suffolk's right of way shall be reported to the Engineering department a minimum of seven (7) calendar days prior to the start of work. E-mail notices shall be sent to: prowpermits@suffolkva.us. Please include information regarding company name, location of work, duration of work, extent of work, contact name and contact telephone number. Permit will not be issued until after the seven (7) day notice of exact work dates are received. If unable to perform work on the approved dates please notify the Engineering Department immediately requesting approval for new dates. Failure to report scheduled work as indicated above, prior to the start of any work in the right of way, will be deemed unauthorized work in the right of way and will result in a stop work order. The City may remove unauthorized work and restore the street to its original condition at the expense of the contractor.

RETURN COMPLETED APPLICATION TO:
PUBLIC WORKS, 442 W. WASHINGTON STREET, SUITE 2036, SUFFOLK, VA 23434 or
EMAIL: prowpermits@suffolkva.us



CITY OF SUFFOLK
Department of Public Works
Engineering Division

STREET, LANE, SIDEWALK CLOSURE PERMIT APPLICATION
(Type or Print Clearly)

Closure Date(s):	From:	To:
Closure Time(s):	From:	To:
General Contractor/Utility:		
Address:		
Phone:		
Fax:		
E-mail:		
Sub-Contractor:		
Worksite Address:		
Closest Street(s):		
Lane Description: (select all that apply)	<input type="checkbox"/> Left <input type="checkbox"/> Right <input type="checkbox"/> Shoulder <input type="checkbox"/> Center <input type="checkbox"/> Sidewalk <input type="checkbox"/> Center Left <input type="checkbox"/> Center Right <input type="checkbox"/> Parking Lane	
Direction: (select all that apply)	<input type="checkbox"/> North <input type="checkbox"/> South <input type="checkbox"/> East <input type="checkbox"/> West	
Type: (select all that apply)	<input type="checkbox"/> Single <input type="checkbox"/> Multiple <input type="checkbox"/> Mobile <input type="checkbox"/> Alternating <input type="checkbox"/> Flagger <input type="checkbox"/> Off-duty Police Officer	
Reason for closure:		
Primary & Secondary Contacts (contractor performing the work):	Name: Work Phone: Cell Phone: After Hours: E-mail:	Name: Work Phone: Cell Phone: After Hours: E-mail:

Application must be submitted **seven (7)** business days in advance of the requested closure.

- 1.) A permit will not be issued unless this application is accompanied by a traffic control plan for the requested closure.
- 2.) The traffic control plan must show work zone, all traffic control devices, street, lane or sidewalk to be closed, closest street, and north arrow. All plans must comply with the latest version of the Virginia Work Area Protection Manual and the Manual for Uniform Traffic Control Devices.

The Permittee, its agents, employees, officers and assigns assume all responsibility and liability for any injury to persons or damage to public or private property, caused directly or indirectly, by the performance of permitted work under this permit. Furthermore, the Permittee, its agents, employees, officers or assigns agree to save and hold harmless the City of Suffolk, its agents, employees, and officers from any and all claims, demands, actions, judgments, executions, damages or proceedings for any and all personal injury and injuries to property, real or personal, public or private caused by or arising out of, directly or indirectly, from the performance of permitted work.

I certify that the above information is accurate, that proper permission from the property owner has been obtained to perform the work, and that all work will be done in accordance with the City of Suffolk Right of Way Excavation and Restoration Manual, as amended.

PRINT NAME _____ SIGNATURE _____ DATE _____
(Permit Applicant or Authorized Agent)

The applicant hereby agrees that:

- A fee of \$100.00 will be charged for each permit issued.
- Application must be submitted seven (7) business days in advance of work site date.
- All work will be performed in accordance with the Laws, Zoning Ordinances, City Code of the City of Suffolk, Virginia, the attached detailed plan, and as directed by the City Manager or designated representative.
- The work shall be carried out in accordance with Chapter 74 of the Suffolk City Code, entitled "Streets and Sidewalks." Failure to have in possession a copy of this document does not relieve the permittee from the responsibility of having knowledge of and adhering to the requirements described therein.
- Applicants to whom permits are issued at all times indemnify and save harmless the City of Suffolk from responsibility and damage to, or liability arising from, the exercise of privileges granted in such permit either during construction or at any time in the future.
- Permits are issued for street openings at specified locations. If additional openings are necessary to complete the work at this site, the permittee must notify the City Manager or designated representative immediately.
- Limitations of working hours may be stipulated when necessary.
- Traffic is not to be rerouted without special permission of the City Manager or designated representative.
- Traffic is to be protected by adequate lights, barricades, and constructions signs at all times in accordance with MUTCD standards.
- All backfilling of trenches is to be made in layers not to exceed six (6) inches loose depth and compacted to a density rate of 95%.
- Compaction by water will not be permitted.
- Where entrances are disturbed, they must be restored to their original condition or to a condition satisfactory to the City Manager or designated representative.
- The absence of an inspector does not in any way relieve the permittee of his responsibility to perform the work in accordance with the provisions of this permit.
- The permittee is responsible for ensuring that all utility markings are removed within 20 days after the completion of work. If the utility marks are not removed by the time specified herein, the City will consider the marks as graffiti. The City, in accordance with existing City ordinances, may remove graffiti, and the costs associated with such removal will be the responsibility of the contractor or permittee. The City shall have the right to suspend further permits to contractor or permittee until the utility marks are removed.
- The permittee, its agents, employees, officers, and assignees assume all responsibility and liability for any injury to persons to damage to public or private property caused directly or indirectly by the performance of work performed under this permit.
- This permit shall expire six (6) months from the date of approval.
- The City of Suffolk reserves full municipal control over the subject of this permit.
- Permittee agrees to notify the Department of Public Works when the work herein referred to is completed.
- A copy of this permit must be maintained on the site at all times.

In an effort to coordinate work & ensure safe travel, all work zones within the City Of Suffolk shall be reported to *Public Works Dispatch*, each day by 8:00AM. E-mail notices shall be sent to: workzonenotifications@suffolkva.us. Additional option shall be called in at 757-514-7600. If there is not answer, please leave information regarding company name, location of work zone, duration of work, extent of work, a contact name & call-back phone number.

You are required to call the Construction Manager at 757-514-7725 to arrange an inspection 48 hours prior to the start of any work in the Right of Way, including utility cuts.

**RETURN COMPLETED APPLICATION TO:
PUBLIC WORKS, 442 W. WASHINGTON STREET, 2ND FLOOR, SUFFOLK, VA 23434
PHONE: (757) 514-7725 FAX: (757) 514-7620 EMAIL: rowpermits@suffolkva.us**

APPENDIX C

SPECIAL PROVISIONS

I. CONSTRUCTION DRAWINGS:

- 1.1 Drawings will be provided as required on a Work Order basis.

II. HAMPTON ROADS PLANNING DISTRICT COMMISSION REGIONAL CONSTRUCTION STANDARDS:

- 2.1 Prior to Construction, the Contractor is required to obtain a copy of the Hampton Roads Planning District Commission *Regional Construction Standards* (Latest Edition), from the Hampton Roads Planning District Commission located in Chesapeake, Virginia.

III. SUPPLEMENTAL TECHNICAL SPECIFICATIONS

3.1 Incidental Items

A. There are numerous incidental items of work that are required to complete a Work Order. While these items may not be specifically mentioned or illustrated by the Bid Documents and there may be no specific pay items listed for them, the Contractor will be required to perform those incidental tasks that can be anticipated through inspection of the Bid Documents, inspection of construction areas within the City, and experience in this class of construction.

B. Items considered incidental work shall not be measured for payment or paid for as such unless specified as unit price by items on the bid form. These items and their costs shall be included in the unit prices or lump sum bid for the pay items unless bid separately. Incidental items include but are not limited to the following:

1. Allaying dust and mud.
2. Daily cleanup.
3. Erosion and sediment control.
4. Excavation and dewatering.
5. Furnishing, hauling, placing, manipulating, and compacting material.
6. Transporting and mobilizing equipment and materials (including but not limited to equipment trailers).
7. Location of existing utilities.
8. Material royalties.
9. Offsite disposal of excess excavated, surplus and remnant excavated materials.
10. Removal and replacement of existing signs, fences, mail boxes, and similar existing improvements.
11. Site restoration and cleanup.
12. Site security.
13. Stakeout and surveying.
14. Pre and/or post television inspection for sewer pipe replacement, sewer pipe rehabilitation, or point repairs.
15. Bypass pumping in accordance with Section 812 – Bypass Pumping.

16. Traffic control (for work on roadways with a speed limit of 35 mph or less). Traffic control on roadways with a speed limit greater than 35 mph and for work on Main Street or Constance Road, shall be paid for under Schedule B.
 17. Minor relocation of buried cables, gas lines, water lines, sewer lines, or similar utility lines 2 inches and smaller in diameter.
 18. Construction entrances.
 19. Pavement marking.
 20. Final surface restoration.
 21. Top soil and seeding.
 22. Clearing and grubbing.
 23. Protection of existing utilities and other facilities.
- 3.2 For gravity sewer construction, Type III Bedding shall be required for all new and replaced gravity sewer. Bedding material shall be VDOT No. 57 stone.
- 3.3 No sewer line section or lateral shall be plugged or removed from service between the hours of 0530 and 0830 and between 1630 and 1930 EST. Sewage flows shall not be interrupted for more than four hours.
- 3.4 Measurement and payment for select material, undercut excavation and bedding stone for undercut excavation shall be in accordance with HRPDC Regional Construction Standard Detail No. EW_02 and Detail No. EW_03.
- 3.5 Sewer Laterals – Bid Item No. 22 through Bid Item No. 24
- A. Payment for these bid items will include the cost of furnishing and installing a fitting on the mainline sewer; either existing, replaced or rehabilitated. Payment for these bid items will include the cost of installing a new sewer lateral or replacement of an existing sewer lateral on the mainline sewer; either existing, replaced or rehabilitated. Payment for these bid items will also include the cost of furnishing and installing bedding stone. Costs for any required select fill or pavement patching will be paid for under their respective bid items.
 - B. Sewer laterals shall be installed in accordance with the City of Suffolk *Sanitary Lateral* standard detail, included in Appendix A.
- 3.6 Cleanout Assembly Raise To Grade – Bid Item No. 26
- A. Unit cost for each cleanout assembly raised to grade will include the cost of the following:
 1. All labor, equipment, and materials necessary to raise the cleanout to existing grade.
 2. Excavation.
 3. Backfill and compaction.
 4. Restoration including pavement repair.
 5. Disposal of excess material.

- 3.7 Riser Pipe Replacement – Bid Item No. 27
- A. Payment for this bid item will include the cost of furnishing and installing a new wye connection on the sewer lateral, a new riser pipe, a new fernco and cleanout assembly and all necessary fittings and/or sleeves.
 - B. Costs for any required select fill or pavement patching will be paid for under their respective bid items.
- 3.8 Point Repairs – Bid Item No. 28 through Bid Item No. 43
- A. In accordance with Section 818 of the HRPDC Regional Construction Standards, a post-installation video inspection will be performed on all point repairs and the cost of the post installation video will be included in the point repair bid items.
 - B. Payment for these bid items will include the cost of furnishing and installing bedding stone. Costs for any required select fill or pavement patching will be paid for under their respective bid items.
- 3.9 Standard 48" Manhole – Bid Item No. 44 and Bid Item No. 45
- A. Standard 48" manholes shall be installed in accordance with the City of Suffolk *Standard 48" Diameter Manhole* standard detail, included in Appendix A.
- 3.10 Standard 60" Manhole – Bid Item No. 46 and Bid Item No. 47
- A. Standard 60" manholes shall be installed in accordance with the City of Suffolk *Standard 60" Diameter Manhole* standard detail, included in Appendix A.
- 3.11 Drop Manhole (inside drop with 60" manhole or outside drop with 48" manhole) – Bid Item No. 48 and Bid Item No. 49.
- A. An inside drop connection with 60" manhole or an outside drop connection with 48" manhole shall be installed in accordance with the City of Suffolk *Exterior Drop Connection* or *Interior Drop Connection* standard detail, included in Appendix A.
 - B. Payment will be made based on the unit cost per each manhole installed, complete in place. Payment will include the cost of the following:
 - 1. Excavation, bedding, backfill, compaction and chipping existing asphalt as required.
 - 2. Disposal of surplus and unsuitable material.
 - 3. Removing existing manhole, if required.
 - 4. Dewatering.
 - 5. Manhole, complete including benches, inverts, and troughs.
 - 6. Openings and seals.
 - 7. Furnishing and installing drop connection, complete in place. Includes but is not limited to piping, clamps, fittings, connections, and appurtenances.
 - 8. Restoration in right-of-way, shoulders, and easements
 - 9. Seeding and stabilization.

10. Sheeting and shoring.
11. Testing.

3.12 60" Valve Vault Manhole – Bid Item No. 50 and Bid Item No. 51

- A. Valve vault manhole measurement will be made for each valve vault manhole depth (0 to 6 feet) installed and satisfactorily tested as measured to the nearest foot from the bottom of the frame and cover to the invert out.
- B. Payment will be made based on the unit cost per each manhole installed, complete in place. Payment will include the cost of the following:
 1. Excavation, bedding, backfill, compaction and chipping existing asphalt as required.
 2. Disposal of surplus and unsuitable material.
 3. Removing existing manhole, if required.
 4. Dewatering.
 5. Manhole, complete including benches, inverts, and troughs.
 6. Openings and seals.
 7. Furnishing and installing 8" gate valve inside manhole, including but not limited to sleeves, fittings, coupling adapters, valve box, valve stem, and required valve appurtenances. The cost difference for the use of a gate valve larger than 8" will be paid for under Schedule B.
 8. Restoration in right-of-way, shoulders, and easements
 9. Seeding and stabilization.
 10. Sheeting and shoring.
 11. Testing.
- C. Extra Depth:
 1. Measurement of valve vault manholes in excess of 6 feet in depth will be made based on the vertical feet of manhole installed in excess of 6 feet, measured to the nearest foot from 6 feet below the bottom of the frame and cover to the depth of the downstream invert of the manhole.
 2. Payment will be made at the unit price bid for each additional vertical foot of valve vault manhole (in excess of 6 feet in depth) installed will include the cost of the following:
 - a. All appurtenances required for satisfactory operation.
 - b. Dewatering.
 - c. Excavation, bedding, backfill, and compaction.
 - d. Furnishing and installing additional valve appurtenances as required based on depth of the manhole, including but not limited to non-rising extension stem.
 - e. Sheeting and shoring.
 - f. Openings and seals.
 - g. Disposal of surplus material.
- D. 60" valve vault manholes shall be installed in accordance with the City of Suffolk *60" Diameter Valve Vault Precast Concrete Manhole* standard detail, included in Appendix A.

3.13 Standard Manhole Frame and Cover – Bid Item No. 52

- A. Standard manhole frame and covers shall be installed in accordance with the City of Suffolk *Standard Manhole Frame and Cover with Insert* standard detail, included in Appendix A.

3.14 Manhole Inserts – Bid Item No. 53

- A. Manhole inserts shall be installed in accordance with the City of Suffolk *Standard Manhole Frame and Cover with Insert* standard detail, included in Appendix A.
- B. Manhole inserts shall be measured based on each installed and accepted. Payment will be made based on the unit cost per each manhole insert installed complete in place.

3.15 Raise Existing Manhole to Grade – Bid Item No. 54

- A. Manholes shall be raised to grade in accordance with the City of Suffolk *Manhole Rim Adjustment* standard detail, included in Appendix A.
- B. Measurement will be made based on each manhole raised to grade.
- C. Payment will be made based on the unit cost per each manhole raised, complete in place. Payment will include the cost of the following:
 - 1. Excavation and asphalt removal, as required.
 - 2. Disposal of surplus and unsuitable material.
 - 3. Removing existing manhole frame and cover.
 - 4. Furnishing and installing up to two adjustment rings.
 - 5. Resetting existing frame and cover.
 - 6. Restoration including pavement repair.

3.16 Gate Valves – Bid Item No. 59 through Bid Item No. 63

- A. Gate valve bid items include installing new gate valves or replacing existing gate valves on existing or new gravity mains or force mains with a depth of cover less than or equal to 6 feet. Valve installation shall be in accordance with Section 803. All valves and fittings installed on force mains shall have restrained joints. Valves shall be installed with solid sleeves compatible with the existing force main material. Force main valve installations shall pass a visual leak test prior to acceptance. Force main valve boxes shall be installed in accordance with the City of Suffolk *Valve Box* standard detail, included in Appendix A.
- B. Measurement will be made based on each valve for each size valve installed.
- C. Payment will be made based on the unit cost per each valve installed, complete in place. Payment will include the cost of the following:

1. Excavation, backfilling, compacting and compaction testing.
2. Bedding.
3. Verify existing materials
4. Cutting existing piping and removing existing piping and valve as necessary.
5. Disposal of surplus/unsuitable material and removed piping, fittings and valve.
6. Furnishing and installing valve, sleeve, fittings, valve box with frame and cover.
7. Coatings and linings
8. Restoration.

3.17 Asphalt Pavement and Concrete – Bid Item No. 64 through Bid Item No. 70

- A. Pavement cut and patch limits and quantities will be approved by the Owner prior to construction.
- B. Concrete: Unit cost per cubic yard, installed complete in place will include the cost of the following:
 1. Saw cut existing pavement and concrete.
 2. Excavate and dispose of existing stone, concrete, and pavement.
 3. Square cut area.
 4. Furnish and install concrete patch.
- D. Asphalt: Unit cost per cubic yard, installed complete in place will include the cost of the following:
 1. Furnish and install asphalt pavement.
 2. Tack existing walls of pavement prior to placing asphalt (1 lift).
 3. Patch shall be thoroughly and uniformly compacted by rolling.
 4. Seal edges.

3.18 Dewatering - manhole, lateral, or point repair – Bid Item No. 74

- A. Unit cost per each dewatering –manhole, lateral, or point repair shall include all labor, materials, and equipment necessary for dewatering. A well point system is required for payment under this bid item. A mud hog system will not be considered for payment under this bid item. Dewatering will be measured each per location (not daily).

3.19 Dewatering Trench – Linear dewatering per 50 LF – Bid Item No. 75

- A. Unit cost per 50 LF of trench dewatering shall include all labor, equipment, and materials necessary for dewatering, including one pump and one continuous header pipe to dewater 50 feet. In cases where a double well point system will be required or for lengths longer than 50 feet, the price of the additional length shall be prorated based on a per linear foot cost of the 50 foot system. A well point system is required for payment under this bid item. A mud hog system will not be considered for payment under this bid item. Dewatering will be measured each per location (not daily).

- 3.20 Light cleaning and TV inspection for gravity sewer laterals (4"-6") – Bid Item No. 79
 - A. Unit cost per each cleaning and TV inspection of a 4"-6" gravity sewer lateral shall include labor, materials, and equipment necessary for light cleaning and TV inspection.
- 3.21 Additional mobilization to clean & perform TV inspections (on work orders less than 500 LF) – Bid Item No. 80
 - A. Unit cost to be added to each Work Order when the total footage of cleaning and TV inspection for that Work Order is less than 500 LF.
- 3.22 Required City Permit Applications (EA) – Bid Item No. 81
 - A. Unit cost to be added to each applicable Work Order to complete and submit the following permit applications to the appropriate City Department:
 1. Right of Way Permit Application for Utility Work.
 2. Street, Lane, Sidewalk Closure Permit Application.

IV. SPECIFIC CHANGES, ADDITIONS, AND DELETIONS TO THE HRPDC REGIONAL CONSTRUCTION STANDARDS

- 4.1 Details shall be in accordance with the HRPDC regional standards with the exception of the following standard details that replace and supersede any HRPDC standard details.

City of Suffolk, Department of Public Utilities Standard Details, included in Appendix A:

- A. Sanitary Lateral
 - B. Standard 48" Diameter Manhole
 - C. Standard 60" Diameter Manhole
 - D. Exterior Drop Connection
 - E. Interior Drop Connection
 - F. 60" Diameter Valve Vault Precast Concrete Manhole
 - G. Standard Manhole Frame and Cover with Insert
 - H. Manhole Rim Adjustment
 - I. Manhole and Pipe Abandonment
 - J. Valve Box
- 4.2 Division 802 – Sanitary Gravity Sewer Systems, paragraph 3.2.A.2; and Division 818 – Point Repair by Excavation, paragraph 3.2.D.
Delete all references to depth classifications.
Replace with the depth classifications as defined on the Bid Form.
 - 4.3 Division 821 – Sanitary Sewer Service Reconnections, paragraph 3.3.A.
Delete paragraph 3.3.A.7.
Replace with the following: *"7. Lateral pipe and fittings."*
Add the following: *"21. Connection to existing service lateral."*

- 4.4 Division 2 through Division 8.
Delete all references to Section 105.
Replace with the following: "*General Conditions*".
- 4.5 Division 2 through Division 8.
Delete all references to Section 107.
Replace with the following: "*General Conditions*".
- 4.6 Division 2 through Division 8.
Delete all references to Section 109.
Replace with the following: "*Special Provisions*".
- 4.7 Division 2 through Division 8.
Delete all references to Contract Documents.
Replace with the following: "*Bid Documents*".
- 4.8 Division 2 through Division 8.
Clarification any reference to drawings means any drawing, sketch, or detail provided as part of each Work Order.

End of Section