

OF WAY EXCAVATION AND RESTORATION STANDARDS, LATEST EDITION.

VDOT AND/OR APPLICABLE LOCALITY.

MATERIAL PER APPLICABLE

PIPE SIZE & MATERIA

AS SHOWN ON PLAI

(6" IN ROCK

CONDITIONS)

WIDTH OF TRENCH EXCAVATION ....

PIPE DIA. + 6" EACH SIDE ( MINIMUM)

SEE BEDDING NOTE BELOW

HAZARD RECOGNITION IN TRENCHING AND SHORING "

TO MAINTAIN A SET DISTANCE FROM THE UTILITY

ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE AS SPECIFIED BY VDOT OR APPLICABLE

PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM

ALL SEWER LINE PIPE SHALL BE BEDDED IN COMPACTED GRANULAR MATERIAL, BEDDING REQUIREMENTS

IN AREAS SUBJECTED TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS

AND SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 698.

BENCH CUT ON EACH SIDE OF PAVEMENT SHALL BE IN ACCORDANCE WITH VDOT OR APPLICABLE

LIMITS OF OPEN CUT

LOCALITY'S SPECIFICATIONS.
ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL, CHAPTER 2, TITLED "EXCAVATIONS:

THE TRACER WIRE SHALL BE PLACED ALONG THE LOWER QUADRANT OF THE PIPE. THE WIRE SHALL NOT

TOUCH THE PIPE, BUT SHALL BE A MAXIMUM OF 6" FROM THE PIPE. NON-METALLIC SPACERS MAY BE USED

SURFACE MIX ASPHALT

DEPTH VARIES

BASE MIX ASPHALT

SUBBASE

LOCATION OF TRACER WIRE WITH

TRACER WIRE NOT REQUIRED FOR

TYPICAL GRAVITY SANITARY SEWER

NON-METALLIC PRESSURE PIPE.

SEE DETAIL G-4

NON-DETECTABLE

THICKNESS, TO BE

AT A MINIMUM OF

6" BELOW GRADE

(ALL PIPE)

BEDDING: FOR WATERLINES, INSTALL BEDDING STONE TO SPRING LINE OF PIPE AT A MINIMUM, OR PER MANUFACTURER'S RECOMMENDATION. FOR SEWER LINES, BEDDING SHALL BE MINIMUM 6" ABOVE PIPE.

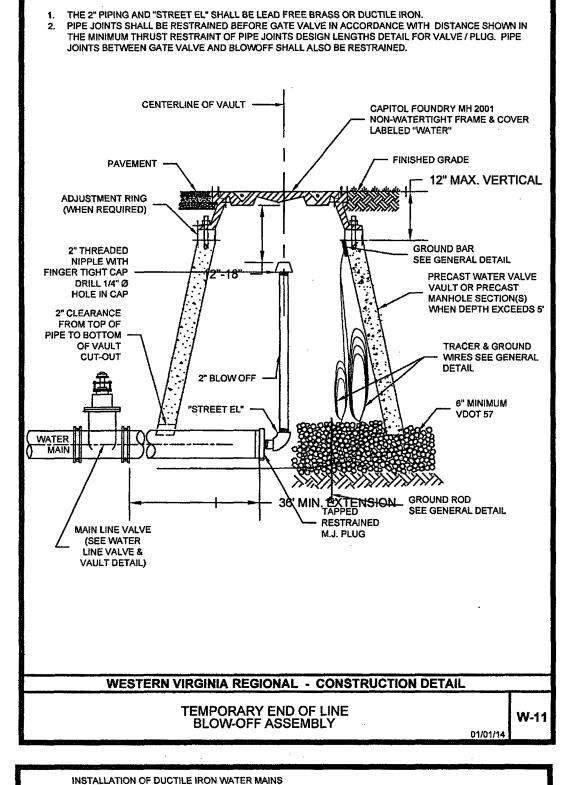
**WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL** 

BEDDING AND BACKFILL UNDER PAVEMENT AND IN RIGHT-OF-WAY

INSTALLED APPROX

3 TO 5 MILS IN

FOR DUCTILE SEWER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA.



of Curve - R\*

Succession of Joint

of Curve - R\*

Produced by

WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

DUCTILE IRON PIPE DEFLECTION ALLOWANCE TABLES

 $R = L/(2\tan\theta/2)$ 

FIGURE 4

Joint Joint Joint Length Length Length Length 18-Feet 20-Feet 18-Feet 20-Feet

19 21 205 230

19 21 205 230

19 21 205 230

11 12 340 380

11 12 340 380

TABLE 3 AVWA C600-0

Pipe Size Angle - θ

\* SEE FIGURE 4.

\* SEE FIGURE 4.

Maximum Joint Deflection Full Length of Pipe - Push on Type Joint

10 5° 19 21 205 230

12 5° 19 21 205 230

16 3° 11 12 340 380

18 3° 11 12 340 380

20 3° 11 12 340 380

30 3° 11 12 340 380

For 14-inch and larger push-on joints, maximum deflection angle may

INSTALLATION OF DUCTILE IRON WATER MAINS

TABLE 4 AVWA C600-05

Maximum Joint Deflection Full Length of Pipe - Mechanical Joint Pipe

Pipe Size Angle - 0 Length Length Length (inches) (degree) 18-Feet 20-Feet 18-Feet 20-Feet

3 8°-18" 31 35 125 140

4 8°-18" 31 35 125 140

6 7°-07" 27 30 145 160

8 5°-21" 20 22 195 220

10 5°-21" 20 22 195 220

12 5°-21" 20 22 195 220

14 3°-35" 13.5 15 285 320

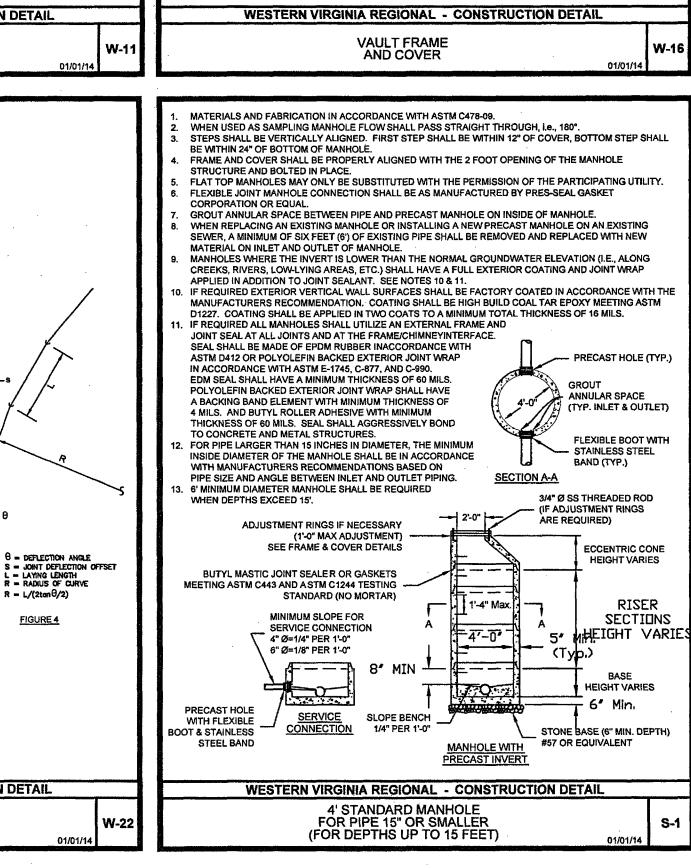
16 3°-35" 13.5 15 285 320

18 3°-00" 11 12 340 380

20 3°-00" 11 12 340 380

24 2°-23" 9 10 450 500

ximum Offset - S\*



. RESTRICT TRAFFIC LOAD FOR A MINIMUM OF 24 HOURS.

3/4" THREADED ROD

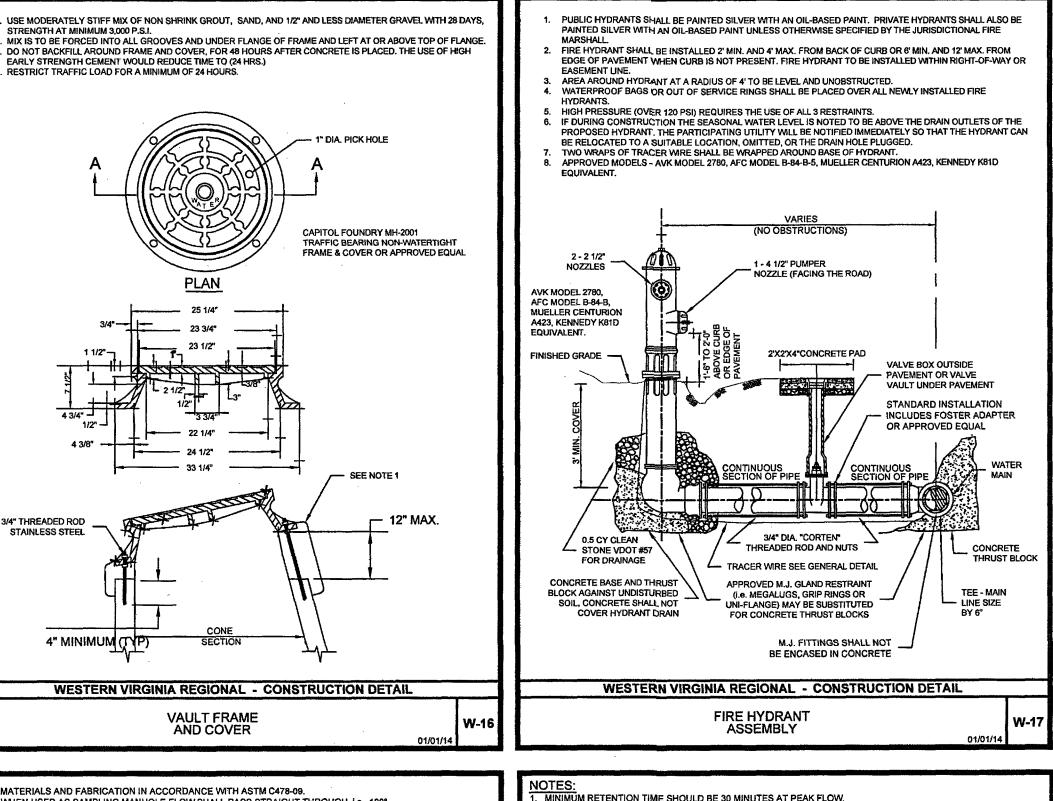
STAINLESS STEEL

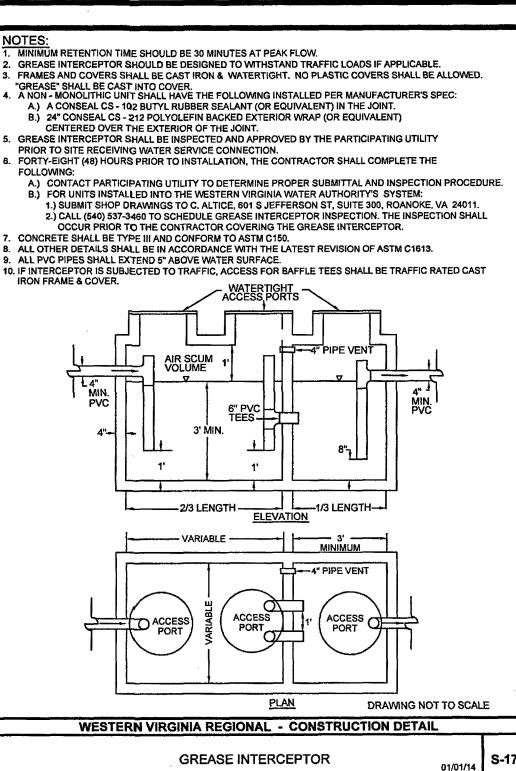
4" MINIMUM (TYT

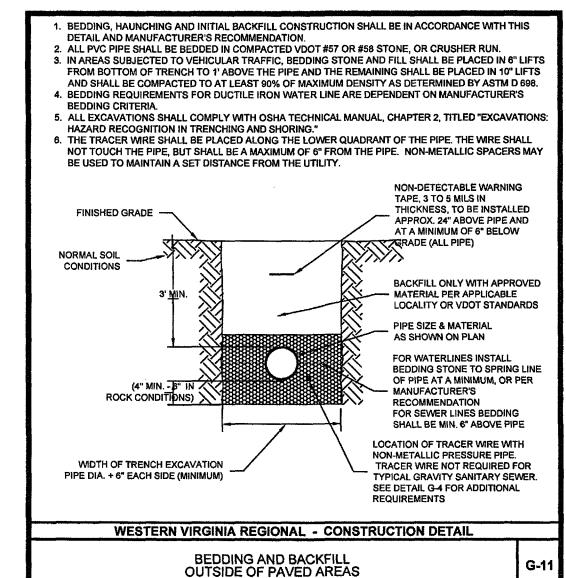
1" DIA. PICK HOLE

CAPITOL FOUNDRY MH-2001

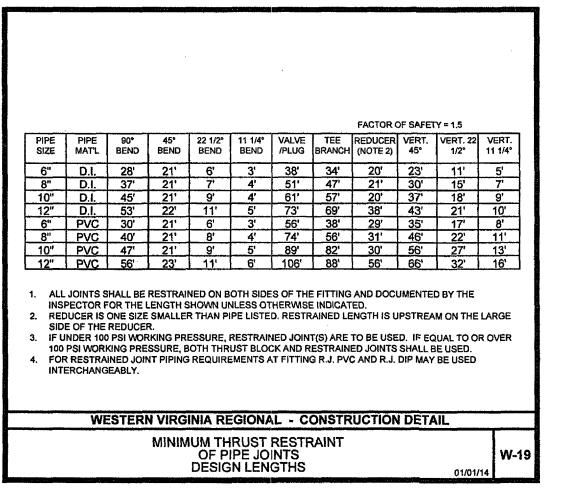
- SEE NOTE 1

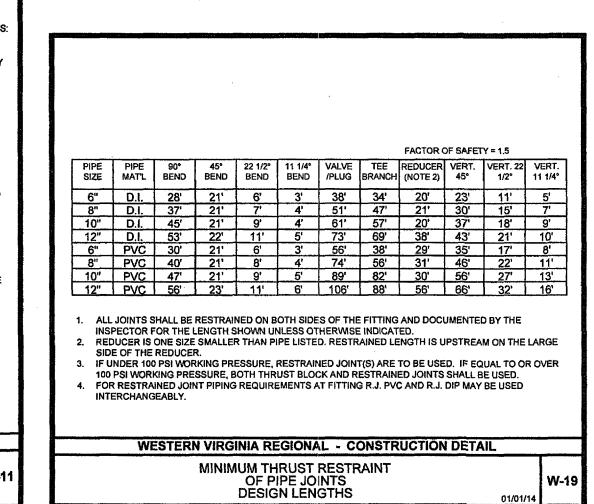




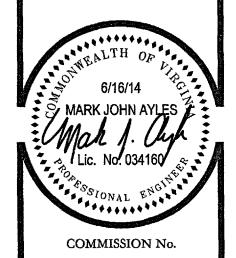


01/01/14





**MESTERN** VIRGINIA MATER AUTHORITY DETAILS



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